

Vulkano Remote Access Configuration

User guide

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Vulkano Remote Access Configuration

In order to communicate with your Vulkano from outside your home network to add or edit scheduled recordings, and transfer them to your PC or mobile phone once they're completed, you may need to manually configure your network router to allow remote access.

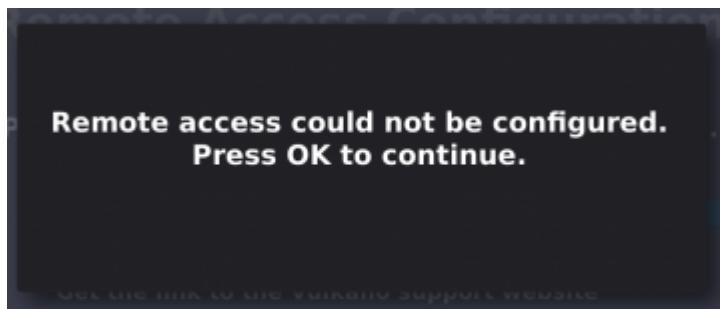
Remote access is also commonly called "port forwarding" and we will use those terms interchangeably in this guide. Different router manufacturers use different terminology to describe remote access. It can be called:

- Port Forwarding
- Port Mapping
- Remote Access
- Gaming and Applications
- Special Servers

Note: Special router setup steps for port forwarding are typically not needed if all you are doing is streaming live video from Vulkano.

If your home router supports UPnP (Universal Plug n Play), then chances are good that Vulkano can perform this setup on your router automatically.

However, if you get this screen during TV Out Setup,



or this screen when running the PC Setup Wizard,

Port Forwarding Configuration Issue



Vulkano Setup uses UPnP to configure your router. If you can confirm that UPnP is enabled on your router, we can try it again.

- Configure again using UPnP

[Configure](#)

- Test the configuration remotely

[Test](#)

Press Skip to continue anyway, however you will not be able to transfer recordings to your PC or Mobile Phone when you are away from home. Transferring files when you are on the same LAN as Vulkano will work.

For more information on router setup for remote access, please click the green question mark below.



Version: 2.1.1010.616

[Advanced](#)

[Home](#)

[Skip](#)

[Next](#)

[Exit](#)

then you may need to handle port forwarding setup manually on your router. Please use this guide to determine the best approach to take, depending on the capabilities of your router.

Do I really need to configure my router?

Choosing a strategy for configuring your router for remote access should be done in the following order, as the steps are listed in increasing level of difficulty.

#1 Your router supports UPnP, UPnP is enabled, remote access configuration already works, and you are reading this document just to learn more about port forwarding.

If your router is relatively new, chances are good that it supports UPnP (Universal Plug n Play) and UPnP is turned on by default. In this case, Vulkano itself can make the settings changes to your router using UPnP and you won't have to do anything extra.

#2 Your router supports UPnP, but UPnP is disabled. You need some guidance to enable UPnP on your router.

There's a possibility that your router supports UPnP, but for some reason it's turned off. If this is true, then the simplest thing you can do is to turn UPnP on and then let the Vulkano setup make the settings changes using UPnP.

If you cannot find information about your specific router (or a similar model) in this guide, then you should locate the documentation for your router, which you can usually find in the "Downloads" or "Support" section of the router manufacturer's web site. Search the documentation for **UPnP** to find out whether it is supported and how to make sure that it is enabled.

Turn UPnP on, then return to the setup screen to "try again".

If you're using TV Setup, go to [this page](#).

If you're using PC Setup Wizard, go to [this page](#).

#3 Your router does not support UPnP, but does support DHCP reservation to make sure that the Vulkano can always get assigned the same IP address without needing to configure Vulkano to use a static IP. In addition, you will need to set the port forwarding rules on your router manually.

Depending on your router manufacturer, DHCP reservation may be called:

- Static DHCP
- Static DHCP Assignment
- fixed-address
- Address Reservation
- IP reservation
- MAC/IP binding

Start by reading [this page](#) regarding DHCP reservation, then check the sections of this document for your router (or a similar model) which describe how to make a DHCP reservation.

#4 Your router does not support UPnP, and does not support DHCP reservation. In this case you will need to configure Vulkano to use a static IP. In addition, you will need to set the port forwarding rules on your router manually.

If your router supports neither UPnP nor DHCP reservation, then you will have to configure your Vulkano with a static IP address and you will need to set your router manually to forward a couple ports to this address.

Do I really need to set a static IP address for Vulkano?

The reason for setting a static IP address is so that your Vulkano ALWAYS comes up on the same IP address, even if it reboots, or your router reboots, or the power in your house goes off for a while, then comes back on, etc.

Setting a static IP address is a reliable way of making sure that your Vulkano is always at the same address. But some router manufacturers have devised clever ways of allowing your device to repeatedly get assigned the same IP address without requiring the further complications of setting up a static IP address.

Depending on your router manufacturer, this feature may be called:

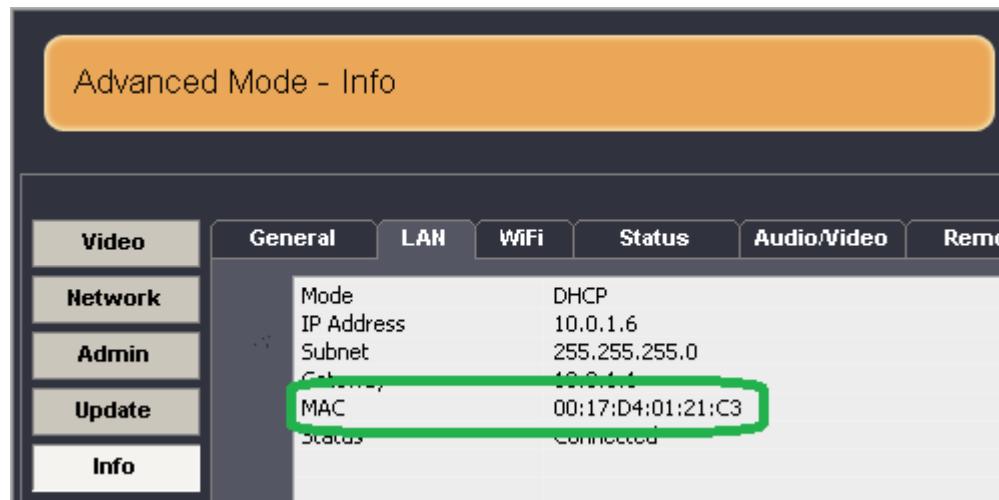
- DHCP reservation
- Static DHCP
- Static DHCP Assignment
- fixed-address
- Address Reservation
- IP reservation
- MAC/IP binding

Check your router's documentation to see if it offers this feature. If so, go ahead and use it. If not, continue on to first set a static IP for Vulkano.

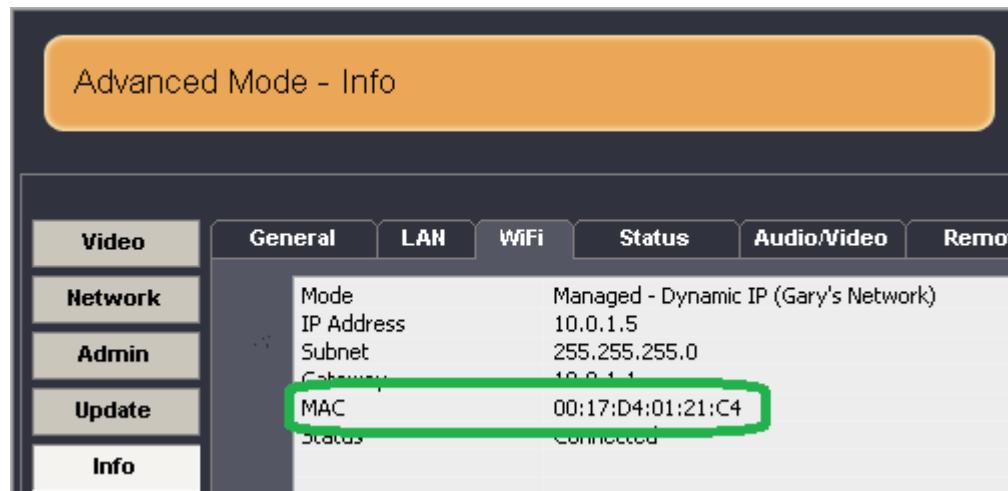
DHCP Reservation - Getting Vulkano's MAC address

Knowing the MAC address of your Vulkano will simplify your set up if your router supports DHCP reservation.

Vulkano's MAC address can be found on the **Help...About** screen of the TV User Interface, or the **Advanced...Info..LAN** screen (for Vulkano connected via Ethernet)



or the **Advanced...Info..WiFi** screen (for Vulkano connected via Wi-Fi).



Setting a Static IP address for Vulkano

Before you set a static IP address for Vulkano, you'll need to know the following information:

- Your router's IP address.
- Your router's DNS server address(es).
- Your router's DHCP address range.

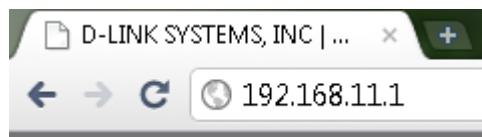
With these bits of information, you can choose a static IP address for Vulkano that will not interfere with any addresses that the router gives out automatically to other devices or computers on your network.

How to find the router's IP address and the DNS addresses:

- [Windows](#)
- [Mac OS/X](#)

Accessing your router's configuration

To access your router's configuration, you copy the router's IP address which you just found into the address field of your favorite browser, as shown:



Or, as in the case of the Apple Routers, you may need to run a special utility that you installed on your PC when you first set up your router.

Assuming you are using the browser method to access your router's configuration, press "Enter" after typing in the router's address. This will take you to a login screen for your router where you will need to enter the user name and password.

A screenshot of a router's login interface. The page has an orange header bar with the word "LOGIN". Below it, the text "Log in to the router :" is displayed. There are two input fields: "User Name : Admin" with a dropdown arrow, and "Password :". Below these fields is a "Log In" button.

We will now show you a specific example to show you how to determine the DHCP range of your router. The method will be different depending on your router's manufacturer and model.

On the D-Link DIR-601, the DHCP Server settings are found under "Setup" (top bar) and "Network Settings" (side bar). You can see here that the DHCP IP Address Range is **192.168.11.90** to **192.168.11.115**.

INTERNET

WIRELESS SETTINGS

NETWORK SETTINGS

NETWORK SETTINGS

Use this section to configure the internal network settings of your router and also to configure the built-in DHCP Server to assign IP addresses to the computers on your network. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

ROUTER SETTINGS

Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.

Router IP Address : **Subnet Mask :** **Device Name :** **Local Domain Name :** (optional)**Enable DNS Relay :** **DHCP SERVER SETTINGS**

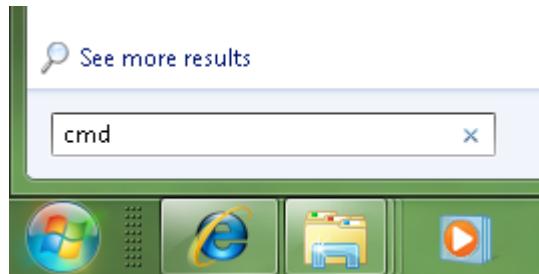
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

Enable DHCP Server : **DHCP IP Address Range :** to **DHCP Lease Time :** (minutes)**Always Broadcast :** (compatibility for some DHCP Clients)**NetBIOS announcement :** **Learn NetBIOS from WAN :** **NetBIOS Scope :** (optional)**NetBIOS node type :**
 Broadcast only (use when no WINS servers configured)
 Point-to-Point (no broadcast)
 Mixed-mode (Broadcast then Point-to-Point)
 Hybrid (Point-to-Point then Broadcast)**Primary WINS IP Address :** **Secondary WINS IP Address :**

Finding your Gateway and DNS addresses - Windows

To determine this information on a Windows PC, first open a command prompt (or "DOS Box" for the older crowd).

Just type "cmd" (without the quotes) into your "Run" window (Windows 7 is shown as the example below), then press "Enter".



You will get a command prompt. Type in the command

ipconfig /all

and press the enter key. Depending on your system configuration, you may get a lot of text on the screen. This is normal.

```
C:\Windows\system32\cmd.exe
C:\Users\Gary>ipconfig /all
Windows IP Configuration

Host Name . . . . . : Gary-PC-U64U
Primary Dns Suffix . . . . . :
Node Type . . . . . : Broadcast
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . . . . . :
Description . . . . . : Generic Marvell Yukon 88E8001/8003/8010 based Ethernet Controller
Physical Address. . . . . : 00-30-1B-46-8B-13
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::c437:ba69:e8a6:37e8%10(PREFERRED)
IPv4 Address. . . . . : 10.0.1.14(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Monday, October 11, 2010 5:56:46 PM
Lease Expires. . . . . : Wednesday, October 13, 2010 5:58:14 AM
Default Gateway . . . . . : 10.0.1.1
DHCPv6 IAID . . . . . : 251670555
DHCPv6 Client DUID . . . . . : 00-01-00-01-10-23-F1-61-00-30-1B-46-8B-13
DNS Servers . . . . . : 198.6.1.195
                           198.6.1.146
NetBIOS over Tcpip. . . . . : Enabled

Tunnel adapter isatap.<1E6E2E55-57B9-4C0F-9EBB-DA79288437FC>:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . :
Description . . . . . : Microsoft ISATAP Adapter
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes

Tunnel adapter Teredo Tunneling Pseudo-Interface:

Connection-specific DNS Suffix . . . . . :
Description . . . . . : Teredo Tunneling Pseudo-Interface
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes
IPv6 Address . . . . . : 2001:0:4137:9e76:184b:5fbf:c0ad:fc14(PREFERRED)
Link-local IPv6 Address . . . . . : fe80::184b:5fbf:c0ad:fc14%12(PREFERRED)
Default Gateway . . . . . : ::

C:\Users\Gary>
```

Now look carefully for the entry which says "Default Gateway" on the left. Make a note of the IP address listed. In this case, it is **10.0.1.1**. This is your router's IP address.

Also look for the entry (or entries) corresponding to your DNS Servers. In this case there are 2 entries: **198.6.1.195** and **198.6.1.146**.

So now you have two pieces of information you needed, which are:

Router address: **10.0.1.1**

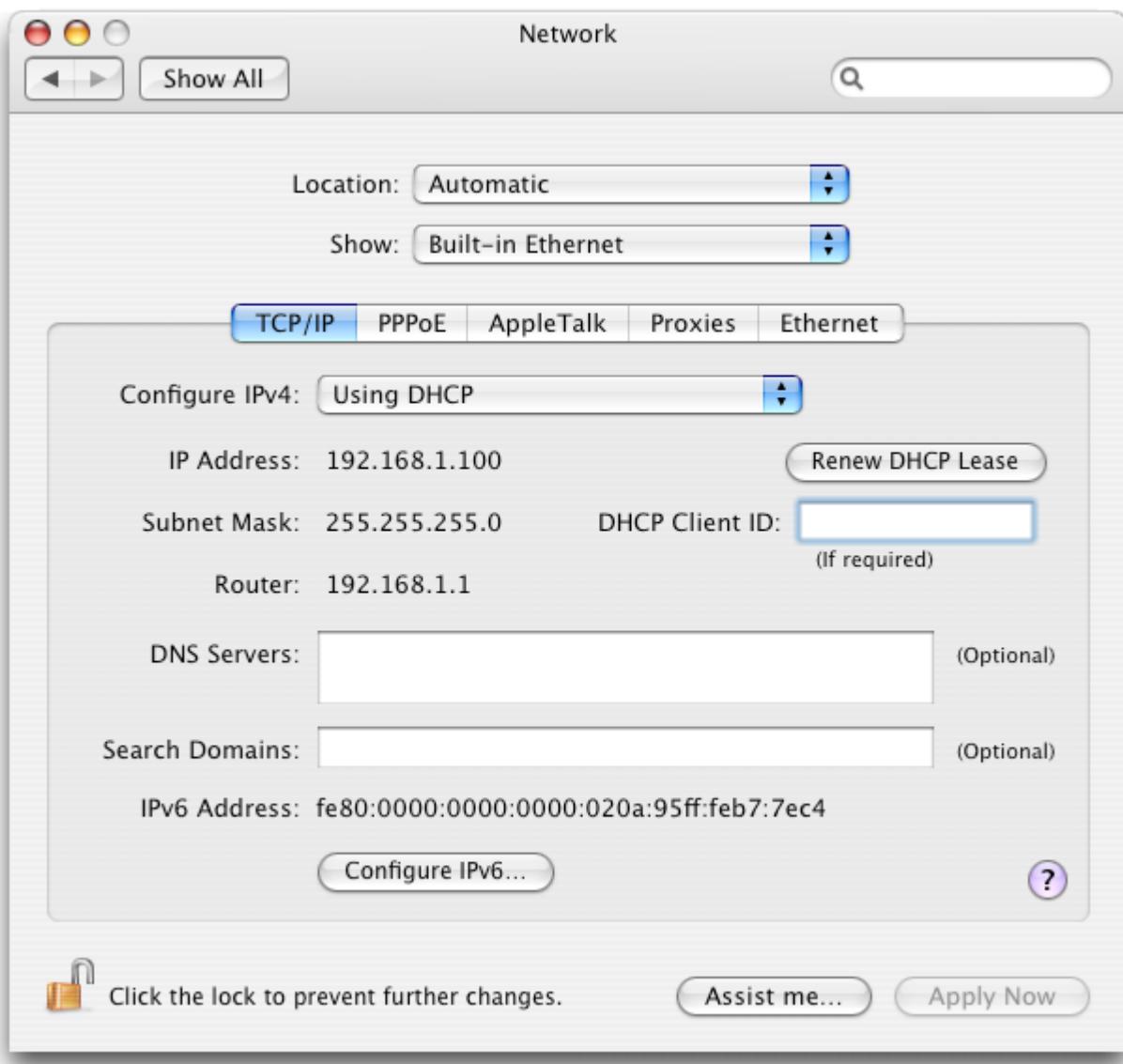
DNS server address(es): **198.6.1.195** and **198.6.1.146**.

Write these down to save them for later.

Finding your Gateway and DNS addresses - Apple OS/X

Router address (Default Gateway)

1. From the **Apple** menu, select **System Preferences**....
2. In **System Preferences**, from the **View** menu, select **Network**.
3. Select the appropriate port. For example, choose **Ethernet** for broadband connections, **AirPort** for wireless, or **Internal Modem** for dial-up.
4. Click **Advanced...** , and in the sheet that opens, click the **TCP/IP** tab. The number next to "Router:" is your default gateway. In this example, the router's IP address is 192.168.1.1.



DNS addresses

If you're using an Apple system running OS/X, you can determine your DNS server addresses by opening a terminal window by launching Applications --> Utilities --> Terminal, and typing in the following command:

```
$ cat /etc/resolv.conf
```

The output will look something like this:

```
nameserver 203.54.1.20  
nameserver 203.54.1.21
```

So now you have two pieces of information you needed, which are:

Router address: **192.168.1.1**

DNS server address(es): **203.54.1.20** and **203.54.1.21**

Write these down to save them for later.

Choosing a static IP address for Vulkano

From the previous steps, you should now know:

- Your router's IP address (example: 192.168.1.1)
- Your router's DHCP address range: (example: 192.168.1.32 to 192.168.1.64)
- Your router's DNS addresses: (example: 203.45.16.30 and 203.45.16.31)

The static IP that you choose for Vulkano needs to be between your router's IP address and the lower end of the DHCP address range, namely from:

192.168.1.2

to:

192.168.1.31

Or, it can be between the upper end of the DHCP address range, and 253 on the same subnet (first three numbers with dots between them). So, on the upper end, that gives you from:

192.168.1.65

to:

192.168.1.253.

You'll also need to make sure that you don't choose an address already in use by another network device configured for static IP, if any.

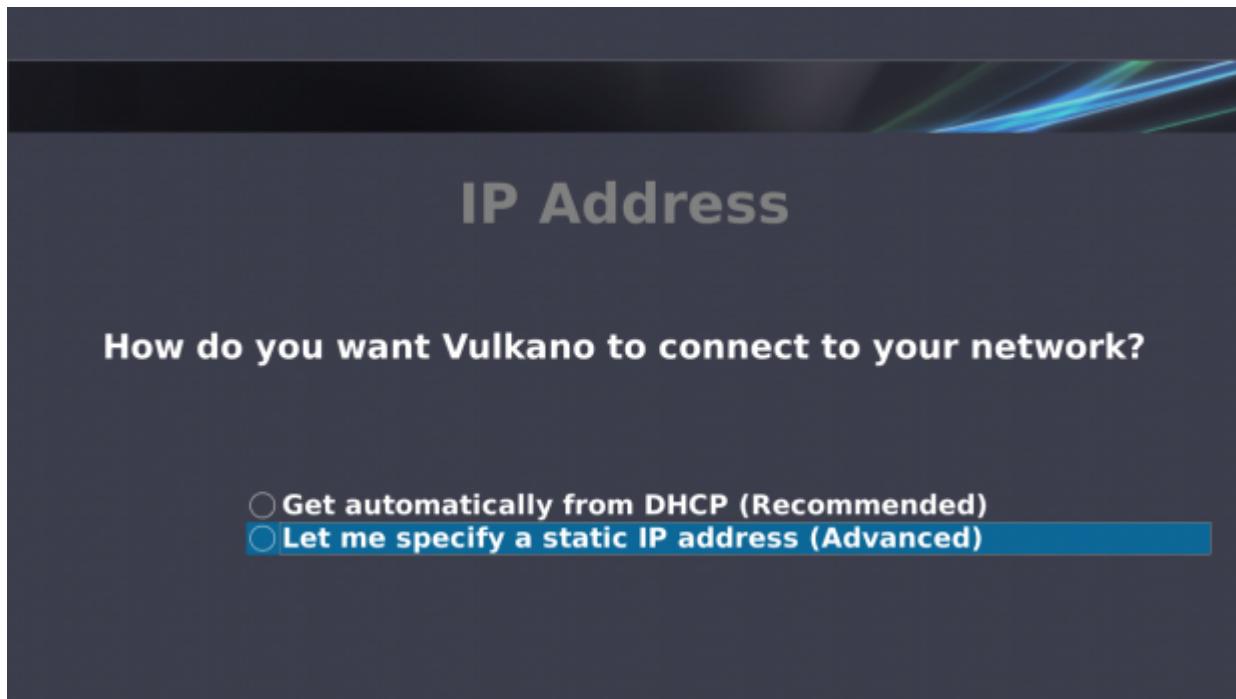
For this example, we will choose:

192.168.1.30. Write this down along with the DNS addresses you determined in the earlier steps.

Setting a static IP using TV Setup

Choose Settings...Advanced Setup...Network... and choose the interface you have used to connect your Vulkano to your network, either Ethernet or Wi-Fi.

Ethernet is chosen in the example below. If you chose Wi-Fi instead, the following screens which are relevant to Static IP configuration will show up after you enter the SSID and security password for your wireless network.



Choose "Let me specify a static IP address (Advanced)" and press OK.

Enter IP Address

Enter a static IP address by using the number buttons on the remote. Press OK when done.

10

0

1

8

Use the number buttons to enter your chosen static IP address. Use the left and right arrow keys to move between the fields. Press OK when you are done.

Static IP Configuration

**Please confirm the settings for Subnet Mask and Gateway.
Are these correct?**

Subnet Mask: 255.255.255.0

Gateway (router) address: 10.0.1.1

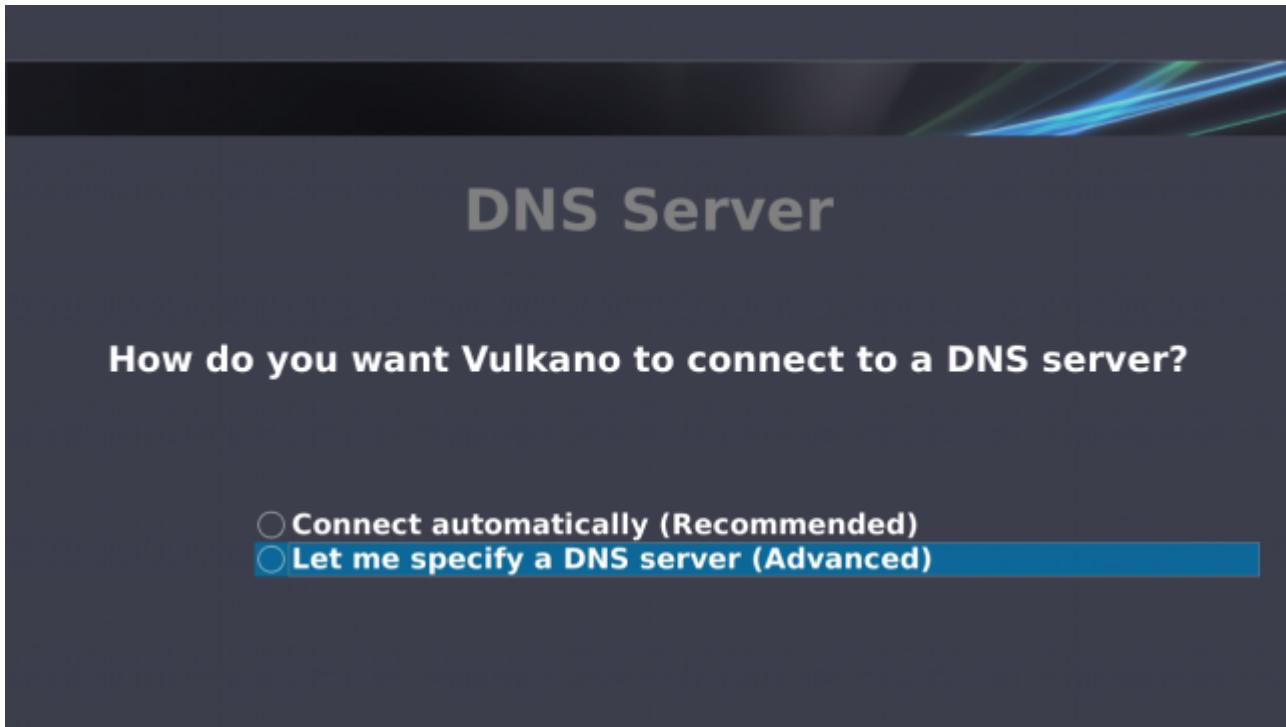
Yes, use these addresses.

No, let me enter specific addresses.

Vulkano TV Setup guesses the most likely settings for your subnet mask and gateway (router) address. If you don't know that these values are different then shown, select "Yes, use these addresses". Otherwise, choose "No, let me enter specific addresses" and make your entries on the following screens.

The subnet mask of 255.255.255 is almost universally used in consumer home networks.

Now you will need to enter the DNS server information you found earlier. At this screen, select "Let me specify a DNS server (Advanced)".



Now enter the DNS server addresses which you located earlier:

Enter DNS Server

Enter DNS server by using the number buttons on the remote. Press OK when done

Preferred:

203

54

1

20

Alternate:

203

54

1

21

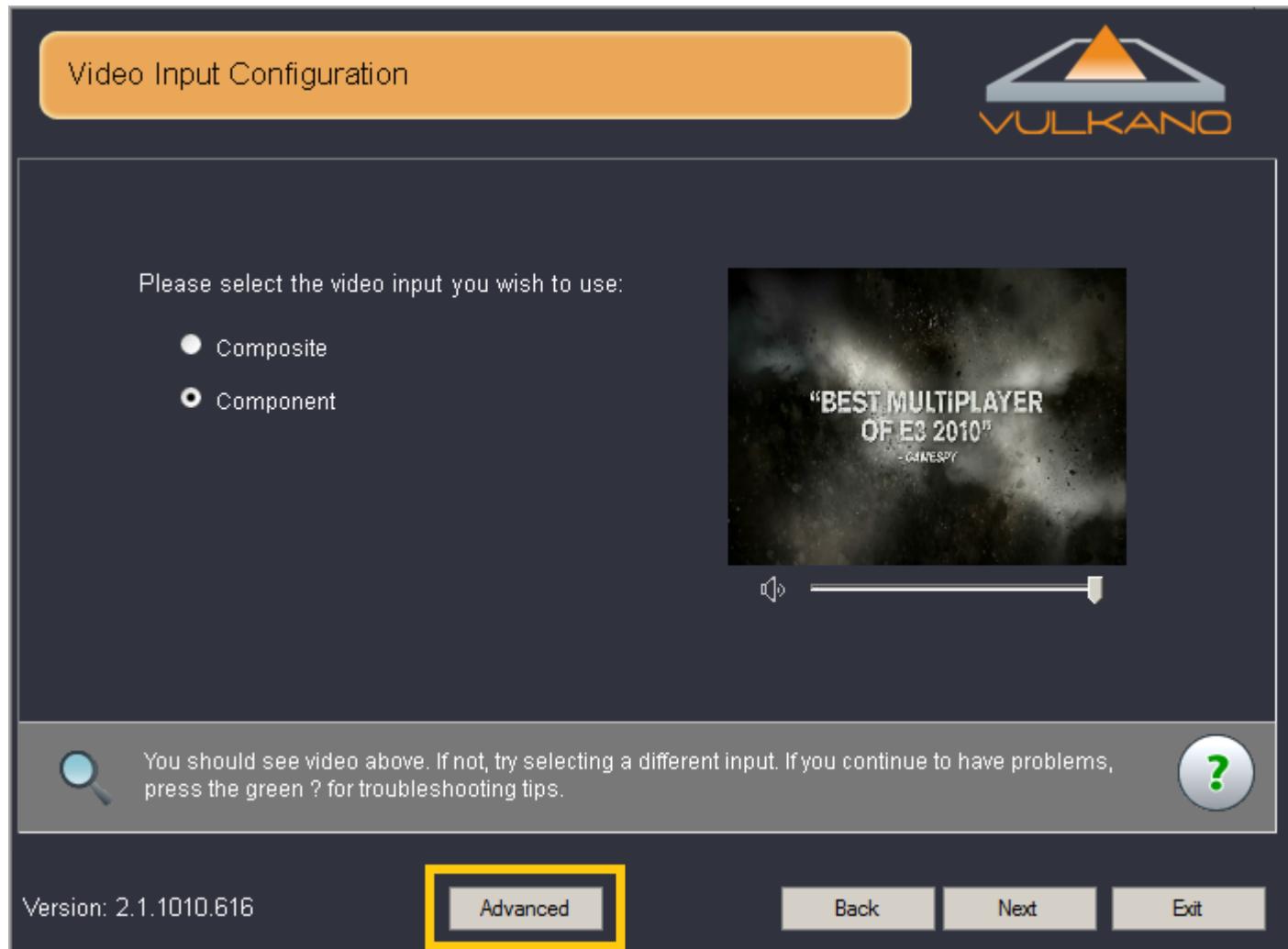
You are done configuring your Vulkano's static IP address.

You may now continue to making your [port forwarding settings](#) on your router, followed by the port forwarding test [here](#).

Setting a static IP using PC Setup Wizard

Run the PC Setup wizard and enter your Vulkano's password.

On the Video Input Configuration screen, click on the "Advanced" button.



Choose "**Network**" on the left, and "**WiFi**" at the upper right if you are connected to your network wirelessly, or "**LAN**" if you are using the Ethernet port. Click on the tab labeled "**Client IP Settings**".

Advanced Mode - Network



Video Radio **Client IP Settings** Access Point IP Settings WiFi LAN

Network Admin Update Info

Static IP Address

IP address	192 . 168 . 11 . 82
Subnet mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 11 . 1

Specified DNS Server Addresses

Preferred DNS server	203 . 54 . 1 . 20
Alternate DNS server	203 . 54 . 1 . 21

Home

Version: 2.1.1010.616 Apply Exit

Enter your chosen static IP address, the Gateway (router address), and the DNS addresses. The subnet mask of 255.255.255 is almost universally used in consumer home networks and should be entered here unless you know that it should be something else - meaning you're an advanced networker! Press "Apply" when you are done.

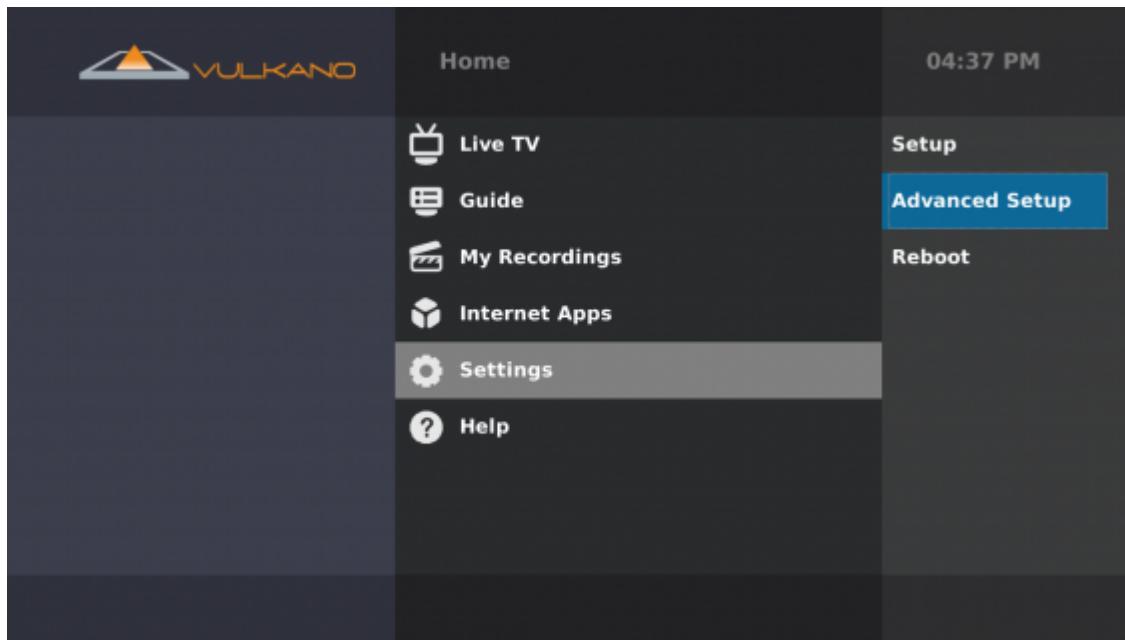
You are done configuring your Vulkano's static IP address.

You may now continue to making your port forwarding settings on your router, followed by the port forwarding test [here](#).

Completing Vulkano setup: TV UI

You may have had to stray away from the setup screens where you first encountered problems with remote access configuration. Here's how to quickly get to where you can test the settings you've made on your router.

From the Main Menu, select "**Settings**", then "**Advanced Setup**".



Scroll down to select "**Remote Access**" and press "**OK**".

Advanced Setup

Select the setting you wish to edit and press OK

Vulkano Name and Password
Time Zone
Remote Access
Storage

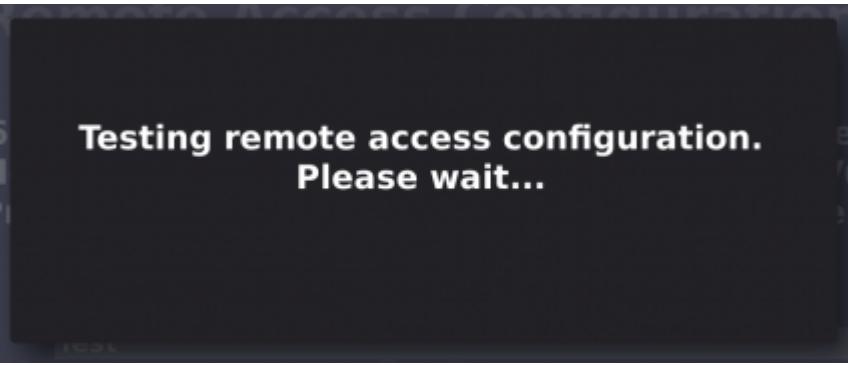


Press OK on this screen to test the Remote Access configuration:

Remote Access Configuration

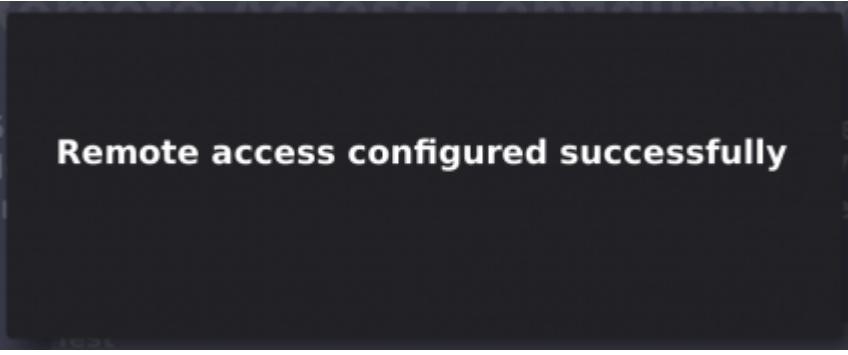
**Port 56123/49177 need to be forwarded to allow streaming and sideloading by other clients connected to yourVulkano.
Press OK to test port forwarding on your router**

Test



**Testing remote access configuration.
Please wait...**

Assuming all works well, you'll see:



Remote access configured successfully

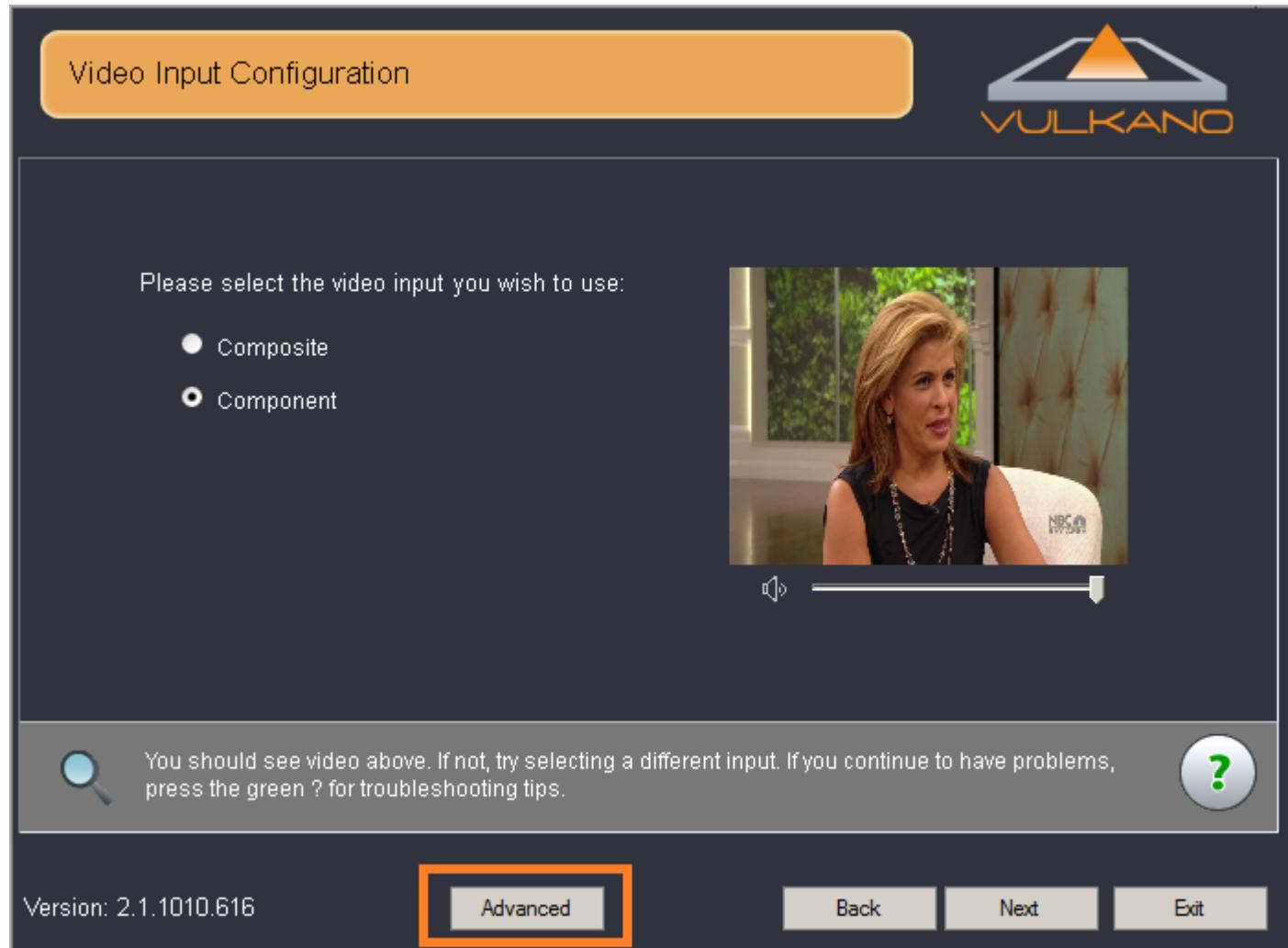
Congratulations! Your Vulkano and network are now set up to allow you to set up, edit, and download recorded shows no matter where you are.

Completing Vulkano setup: PC Setup Wizard

You may have had to stray away from the setup screens where you first encountered problems with remote access configuration. Here's how to quickly get to where you can test the settings you've made on your router.

Start the PC Setup Wizard, if necessary, and enter your password.

As soon as you encounter a screen with the "Advanced" button displayed, click on "Advanced".



Now click on the "Ports" tab:



Video

Network

Admin

Update

Info

General

LAN

WiFi

Status

Audio/Video

Remote

USB

Ports

Testing of ports accessibility:

- Configure again using UPnP
- Test the configuration remotely

[Configure](#)[Test](#)

Please wait while we're trying router settings for specific ports:

Configuring router by UPnP - not tried.

Placeshifting port (56123) - not tried.

Sideloading port (49177) - not tried.

[Home](#)

Version: 2.1.1010.616

[Exit](#)

Using UPnP on your router

If you enabled UPnP on your router, choose: "**Configure again using UPnP**".

If there is any problem, you'll see:

Configuring router by UPnP - failed.
Placeshifting port (56123) - Failed
Sideloading port (49177) - Network error

- Please double check the UPnP settings you made on the router and try it again. If you continue to have problems, please follow the steps for manual port forwarding.

If all goes well, you'll see:

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10/15/2010

Configuring router by UPnP - success.

Placeshifting port (56123) - OK

Sideloaded port (49177) - OK

Congratulations! Your Vulkano and network are now set up to allow you to set up, edit, and download recorded shows no matter where you are.

Manual Port Forwarding Setup

If you made the changes yourself manually, then click "**Test**".

If there is any problem, you'll see:

Configuring router by UPnP - not tried.

Placeshifting port (56123) - Failed

Sideloaded port (49177) - Network error

- Please double check the settings you made on the router and try it again.

If all goes well, you'll see:

Configuring router by UPnP - not tried.

Placeshifting port (56123) - OK

Sideloaded port (49177) - OK

Congratulations! Your Vulkano and network are now set up to allow you to set up, edit, and download recorded shows no matter where you are.

Routers which support UPnP

If your router supports UPnP, you should confirm that UPnP is enabled so that Vulkano can make the port forwarding settings automatically.

Please check the list below for your router manufacturer. Even if your specific model is not listed, it is likely that the steps will be similar.

Belkin Connect N150

Open a browser window, type in the [IP address of your router](#), then hit **Enter**.

On the left hand side, select "System Settings":



You should be taken to the login screen:

Login

Before you can change any settings, you need to login with a password. If you have not yet set a custom password, then leave this field blank and click "Submit."

Password

Default = leave blank

Clear

Submit

To check the UPnP configuration status, look for the section called "UPnP Enabling". If not, then check the "Enable" button, then click on "Apply Changes" at the bottom of this screen.

UPNP Enabling:

ADVANCED FEATURE! Allows you to turn the UPNP feature of the Router on or off. If you use applications that support UPnP, enabling UPnP will allow these applications to automatically configure the router. [More Info](#)

- UPNP Enable / Disable >

Enable Disable

After enabling UPnP, return to the [TV User Interface setup screen](#), or the [PC Setup Wizard screen](#) to retry Remote Access Setup.

D-Link DIR-601

Open a browser window, type in the [IP address of your router](#), then hit **Enter**.

You should be taken to the login screen for your router:

Product Page: DIR-601 Hardware Version: A1 Firmware Version : 1.00NA

D-Link®

LOGIN

Log in to the router :

User Name :

Password :

WIRELESS

The default User Name is "Admin", while the default Password is blank (don't enter anything).

To check the UPnP configuration status, select "Advanced" on the top menu bar, then "Advanced Network" on the left hand side. Now you can check whether UPnP is enabled. If not, then check the "Enable UPnP" checkbox, then click on "Save Settings".

D-Link

DIR-601 //| SETUP ADVANCED TOOLS STATUS

ADVANCED NETWORK

If you are not familiar with these Advanced Network settings, please read the help section before attempting to modify these settings.

Save Settings **Don't Save Settings**

UPnP

Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.

Enable UPnP :

WAN PING

If you enable this feature, the WAN port of your router will respond to ping requests from the Internet that are sent to the WAN IP Address.

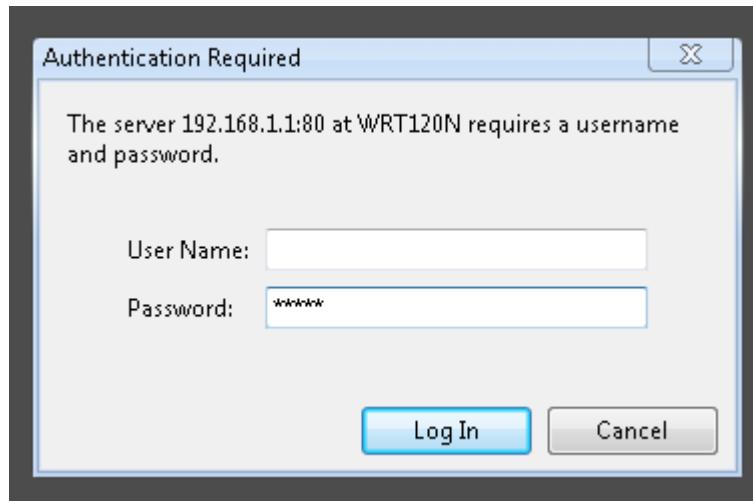
Virtual Server
Port Forwarding
Application Rules
QoS Engine
Network Filter
Access Control
Website Filter
Inbound Filter
Firewall Settings
Routing
Advanced Wireless
Advanced Network

After enabling UPnP, return to the [TV User Interface setup screen](#), or the [PC Setup Wizard screen](#) to retry Remote Access Setup.

Linksys WRT120N

Open a browser window, type in the [IP address of your router](#), then hit **Enter**.

You should be taken to the login screen for your router:



The default User Name is blank (don't enter anything), while the default Password is "**admin**" .

To check the UPnP configuration status, select "**Administration**" on the top menu bar, then "Management" on the sub-menu which appears. Now you can check whether UPnP is enabled. If not, then check the UPnP "**Enabled**" checkbox, then click on "Save Settings".

Wireless-N Home Router

WRT120N

Administration

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Management

Log

Diagnostics

Factory Defaults

Firmware Upgrade

Management

Router Access

Help...

Router Password: Re-enter to Confirm:

Local Management Access

Access via: HTTP HTTPSAccess via Wireless: Enabled Disabled

Remote Management Access

Remote Management: Enabled DisabledAccess via: HTTP HTTPSRemote Upgrade: Enabled DisabledAllowed Remote IP Address: Any IP AddressAddress: 0 . 0 . 0 . 0 to 0Remote Management Port: 8080

UPnP

UPnP: Enabled DisabledAllow Users to Configure: Enabled DisabledAllow Users to Disable Internet Access: Enabled Disabled

Backup and Restore

System Reboot

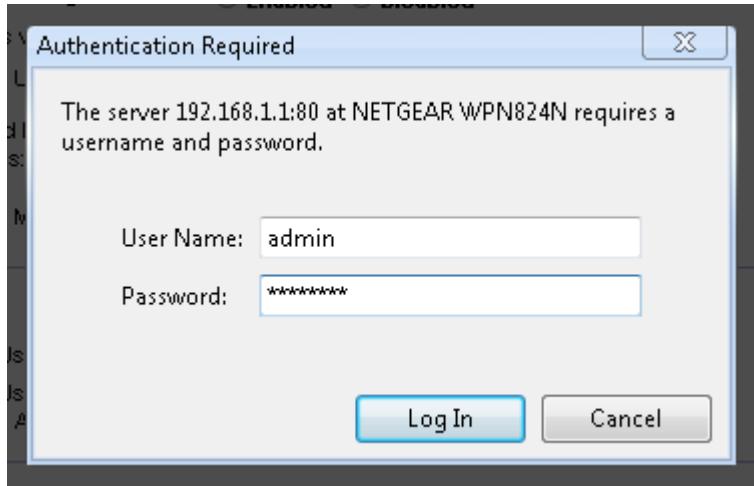


After enabling UPnP, return to the [TV User Interface setup screen](#), or the [PC Setup Wizard screen](#) to retry Remote Access Setup.

Netgear RangeMax N150

Open a browser window, type in the [IP address of your router](#), then hit **Enter**.

You should be taken to the login screen for your router:



The default User Name is "**admin**", while the default Password is "**password**".

To check the UPnP configuration status, select "**UPnP**" on the left menu bar. Now you can check whether UPnP is enabled. If not, then check the "**Turn UPnP On**" checkbox, then click on "**Apply**".

- Setup Wizard
- Add WPS Client

Setup

- Basic Settings
- Wireless Settings
- Guest Network

Content Filtering

- Logs
- Block Sites
- Block Services
- Schedule
- E-mail

Maintenance

- Router Status
- Attached Devices
- Backup Settings
- Set Password
- Router Upgrade

Advanced

- Wireless Settings
- Port Forwarding / Port Triggering
- WAN Setup
- LAN Setup
- Dynamic DNS
- Static Routes
- Remote Management
- UPnP
- Network Monitor
- Display Settings
- Traffic Meter

UPnP

Turn UPnP On

Advertisement Period(in minutes)

Advertisement Time To Live(in hops)

UPnP Portmap Table

Active	Protocol	Int. Pt.
YES	TCP	2168
YES	UDP	2168
YES	UDP	2997
YES	TCP	2997
YES	TCP	3767
YES	UDP	3767
YES	UDP	6164

Apply

Cancel

Refresh

After enabling UPnP, return to the [TV User Interface setup screen](#), or the [PC Setup Wizard screen](#) to retry Remote Access Setup.

Routers which do not support UPnP

Some routers do not support Universal Plug n Play at all and have to be configured manually.

The information presented here was current at the time this document was written. It is possible that an update to your router's firmware may be available that makes UPnP work, which would save you a lot of trouble setting things up.

2Wire 2700 HGV

The 2Wire 2700 HGV manual can be accessed [here](#).

Choosing a static IP address for Vulkano

As the 2Wire router does not support DHCP reservation, you will need to explicitly set Vulkano to use a static IP address that will not conflict with the DHCP range that your router will use to give out addresses automatically to other devices on the network.

First, determine your DHCP range on the next page, then use this information to [set the static IP address on Vulkano](#).

Determining your DHCP range

The "DHCP range" refers to the list of IP addresses that are handed out automatically to devices connecting to your home network by your router. Each network device requires an IP address to communicate.

Open a browser window, type in the IP address of your router, then hit **Enter**.

Click on the "Advanced Settings" link to see this page. The DHCP range is shown outlined by an orange box.

The screenshot shows the 2Wire router's web-based configuration interface. At the top, there is a navigation bar with icons for System, Broadband Link, Home Network (which is highlighted), Voice Network, and Firewall. Below the navigation bar, there are tabs for Summary, Wireless Settings, and Advanced Settings, with the Advanced Settings tab currently selected. On the right side of the header, there are links for HOME, Help, and Site Map.

Edit Advanced Home Network Settings

WARNING

⚠️ Modifying the settings on this page can impact the ability of computers on the local network to access your broadband connection. Modifications may also affect broadband-enabled applications and services running on the local network.

Settings

Private Network

If you change the IP address range, you must renew the DHCP lease on all devices on the network.

192.168.1.0 / 255.255.255.0 (default)
 172.16.0.0 / 255.255.0.0
 10.0.0.0 / 255.255.0.0
 Configure manually

Router Address:

Subnet Mask:

Enable DHCP

First DHCP Address:

Last DHCP Address:

Set DHCP Lease Time: hours

Current Settings

Private Network

Router Address:	192.168.11.1
Subnet Mask:	255.255.255.0
DHCP Range:	192.168.11.173 – 192.168.11.200
Allocated:	28
Available:	0

Device List

Gary-PC-V64U	192.168.11.192
--------------	----------------

[EDIT ADDRESS ALLOCATION](#)

As shown, the DHCP range is from 192.168.11.173 to 192.168.11.200.

The first three numbers of an IP address, separated by dots, in this case 192.168.11, are collectively known as the **subnet**.

You want to choose a static IP for Vulkano that is outside of this range.

The entire subnet consists of the range of IP addresses between **192.168.11.1** and **192.168.11.253**. The router usually reserves the lowest address for itself.

So the IP address ranges in this example are:

- **192.168.11.1 - used by the 2Wire router**
- **192.168.11.2 to 192.168.11.172 - available**
- **192.168.11.173 to 192.168.11.200 - used by DHCP**
- **192.168.11.201 to 192.168.11.253 - available**

Now proceed to configure Vulkano for an available static IP address using the instructions on [this page](#).

Configuring Remote Access

Log into the 2Wire 2700 HGV's setup page using the [router's IP address](#) in your browser.

By default, there is no login required. Here's the initial screen:

The screenshot shows the 2Wire 2700 HGV setup interface. At the top, there is a navigation bar with icons for System, Broadband Link, Home Network, Voice Network, and Firewall. Below the navigation bar, there are tabs for Summary, System Password, Date and Time Settings, Details, and a set of links for HOME, Help, and Site Map.

Network at a Glance

- 2700HGV Gateway**
 - Software: 4.25.15
 - Password: Not Set
 - [Set system password](#)
 - [Privacy policy](#)
 - [View details](#)
- Broadband Link**
 - Connection Speed:
 - Incoming: 1568 kbps
 - Outgoing: 512 kbps
 - [View summary](#)
- Home Network**
 - Computers:
 - Gary-PC-V64U
 - volcano
 - [View the home network](#)

Firewall Firewall Active [View firewall summary](#)

Upgrade the System Your system software is current. Check back for future available upgrades. [View available upgrades and options](#)

Set Up Run the System Setup Wizard. [Registration info](#) [Run System Setup Wizard](#)

Click on "View the home network".



System

Broadband
LinkHome
NetworkVoice
Network

Firewall

[Summary](#)[Wireless Settings](#)[Advanced Settings](#)[HOME](#)[Help](#)[Site Map](#)

View Network Summary

Local Devices



Gary-PC-V64U

For this computer:

- [Edit firewall settings](#)
- [View device details](#)



volcano

For this computer:

- [Edit firewall settings](#)
- [View device details](#)

Status at a Glance

Home Network

Local Interfaces

Ethernet: 1

[DISABLE](#)

Wireless: 1

[ENABLE](#)

USB:

Wireless Settings

Network Name: ZWIRE224

Access Point: 00:14:95:b5:65:71

[EDIT SETTINGS](#)

Identify the "volcano" or "vulkano" device, then click on "Edit firewall settings".

[Summary](#)[Firewall Settings](#)[Advanced Settings](#)[HOME](#)[Help](#)[Site Map](#)

Edit Firewall Settings

Settings

By default, the firewall blocks all unwanted access from the Internet. You can allow access from the Internet to applications running on computers inside your secure home network by enabling firewall pinholes. Opening firewall pinholes is also known as opening firewall ports or firewall port forwarding. To do this, associate the desired application with the computer below. If you cannot find a listing for your application, you can create a user-defined application profile. (To create a user-defined profile, you will need to know protocol and port information.)

- [View firewall details](#)
- [Reset all firewall settings](#)

To Allow Users Through the Firewall to Hosted Applications...

1 Select a computer

Choose the computer that will host applications through the firewall:

2 Edit firewall settings for this computer:

Maximum protection – Disallow unsolicited inbound traffic.

Allow individual application(s) – Choose the application(s) that will be enabled to pass through the firewall to this computer. Click ADD to add it to the Hosted Applications list.

1)

All applications

Age of Wonders
Aliens vs Predator
Anarchy Online
Asheron's Call
Baldur's Gate
BattleCom
Battlefield Communicator
Black and White
Dark Reign
Dark Reign 2

Hosted Applications:

[Empty list]

ADD

REMOVE

- [Add a new user-defined application](#)
- [Edit or delete user-defined application](#)

2)

Allow all applications (DMZplus mode) – Set the selected computer in DMZplus mode. All inbound traffic, except traffic which has been specifically assigned to another computer using the "Allow individual applications" feature, will automatically be directed to this computer. The DMZplus-enabled computer is less secure because all unassigned firewall ports are opened for that computer.

Note: Once DMZplus mode is selected and you click DONE, the system will issue a new IP address to the selected computer. The computer must be set to DHCP mode to receive the new IP address from the system, and you must reboot the computer. If you are changing DMZplus mode from one computer to another computer, you must reboot both computers.

DONE

You will need to add three user-defined applications:

1. Vulkano EPG: TCP on port 49177
2. Vulkano TCP: TCP on port 56123
3. Vulkano UDP: UDP on port 56123

Select "**Allow individual applications**", then click on the link "**Add a new user-defined application**".

Enter the settings shown below, then click on "**Add definition**".

Edit Application

Settings

Profile Name
Enter a name for the application profile that you are creating.

Application Name: Vulkano EPG

Definition
Choose a protocol and enter the port(s) for this application, then click ADD DEFINITION to add the definition to the Definition List. If the application requires multiple ports or both TCP and UDP ports, you will need to add multiple definitions.

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu below, it is recommended that you select it.

Protocol: TCP UDP

Port (or Range): From: To: 49177

Protocol Timeout (seconds): TCP default 86400
UDP default 600

Map to Host Port: Default = the same port as defined above.

Application Type:

ADD DEFINITION

BACK

The following screen will appear, confirming your entry. Click on "Back".

Similarly, add the definitions for Vulkano TCP and Vulkano UDP:

Edit Application

Settings

Profile Name

Application Name: **Vulkano TCP**

Definition

Choose a protocol and enter the port(s) for this application, then click ADD DEFINITION to add the definition to the Definition List. If the application requires multiple ports or both TCP and UDP ports, you will need to add multiple definitions.

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu below, it is recommended that you select it.

Protocol: TCP UDP

Port (or Range): From: To:

Protocol Timeout (seconds): TCP default 86400
UDP default 600

Map to Host Port: Default = the same port as defined above.

Application Type:

Definition List

Protocol	Port (or Range)	Host Port	Timeout (sec)
----------	-----------------	-----------	---------------

TCP	56123	56123	86400	<input type="button" value="REMOVE"/>
-----	-------	-------	-------	---------------------------------------

Edit Application

Settings

Profile Name

Enter a name for the application profile that you are creating.

Application Name:

Vulkano UDP

Definition

Choose a protocol and enter the port(s) for this application, then click ADD DEFINITION to add the definition to the Definition List. If the application requires multiple ports or both TCP and UDP ports, you will need to add multiple definitions.

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu below, it is recommended that you select it.

Protocol:

TCP

UDP

Port (or Range):

From: 56123

To: 56123

**Protocol Timeout
(seconds):**

TCP default 86400

UDP default 600

Map to Host Port:

Default = the same port as
defined above.

Application Type:

None (Default)

ADD DEFINITION

BACK

Edit Application

Settings

Profile Name

Application Name: **Vulkano UDP**

Definition

Choose a protocol and enter the port(s) for this application, then click ADD DEFINITION to add the definition to the Definition List. If the application requires multiple ports or both TCP and UDP ports, you will need to add multiple definitions.

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu below, it is recommended that you select it.

Protocol: TCP UDP

Port (or Range): From: To:

Protocol Timeout (seconds): TCP default 86400
UDP default 600

Map to Host Port: Default = the same port as defined above.

Application Type:

Definition List

Protocol	Port (or Range)	Host Port	Timeout (sec)	
UDP	56123	56123	600	<input type="button" value="REMOVE"/>

Once you have added all 3 of the application settings for Vulkano, you now need to apply them to the Vulkano device. Make sure that "vulkano" or "volcano" is the selected computer, select "**Allow individual application(s)**", click and shift-click to select all three Vulkano application rules, then finally click "**Add**" to add them to the list.



System



Broadband Link



Home Network



Voice Network



Firewall

[Summary](#)[Firewall Settings](#)[Advanced Settings](#)[HOME](#) | [Help](#) | [Site Map](#)

Edit Firewall Settings

Settings



By default, the firewall blocks all unwanted access from the Internet. You can allow access from the Internet to applications running on computers inside your secure home network by enabling firewall pinholes. Opening firewall pinholes is also known as opening firewall ports or firewall port forwarding. To do this, associate the desired application with the computer below. If you cannot find a listing for your application, you can create a user-defined application profile. (To create a user-defined profile, you will need to know protocol and port information.)

- [View firewall details](#)
- [Reset all firewall settings](#)

To Allow Users Through the Firewall to Hosted Applications...

① Select a computer

Choose the computer that will host applications through the firewall:

② Edit firewall settings for this computer:

Maximum protection – Disallow unsolicited inbound traffic.

Allow individual application(s) – Choose the application(s) that will be enabled to pass through the firewall to this computer. Click ADD to add it to the Hosted Applications list.

All applications

- Vulkano EPG
- Vulkano TCP
- Vulkano UDP
- Windows Remote Desktop
- Age of Empires
- Age of Kings
- Age of Wonders
- Aliens vs Predator
- Anarchy Online
- Asheron's Call



Hosted Applications:

- [Add a new user-defined application](#)
- [Edit or delete user-defined application](#)

After adding the new Vulkano applications, you'll see this:

Hosted Applications:

Vulkano EPG
Vulkano TCP
Vulkano UDP

You can now close the browser window showing your router setup and proceed to test the port forwarding setup with [TV Setup](#) or [PC Setup Wizard](#).

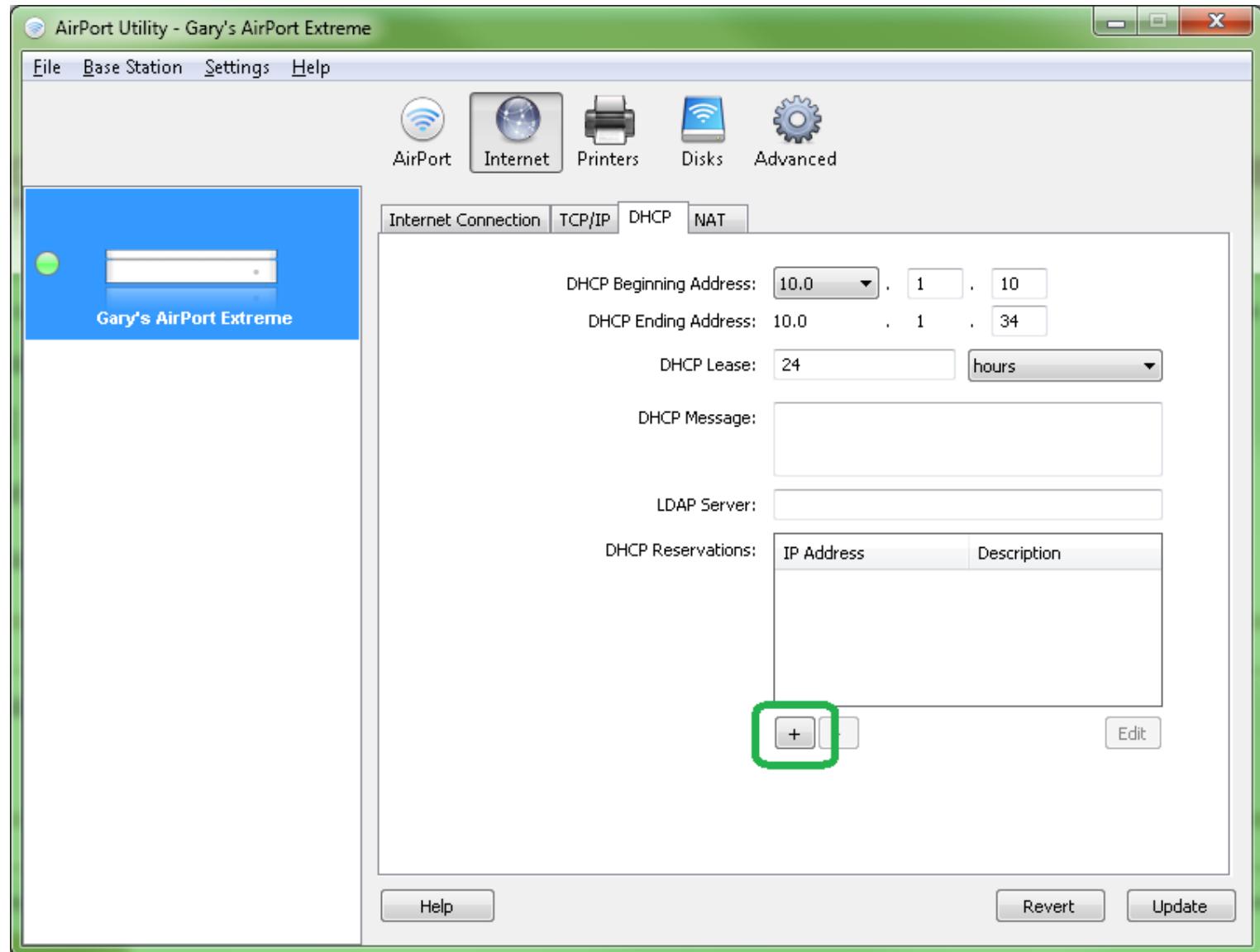
Apple Airport Extreme

Use the Apple AirPort Utility software to configure your Apple AirPort router.

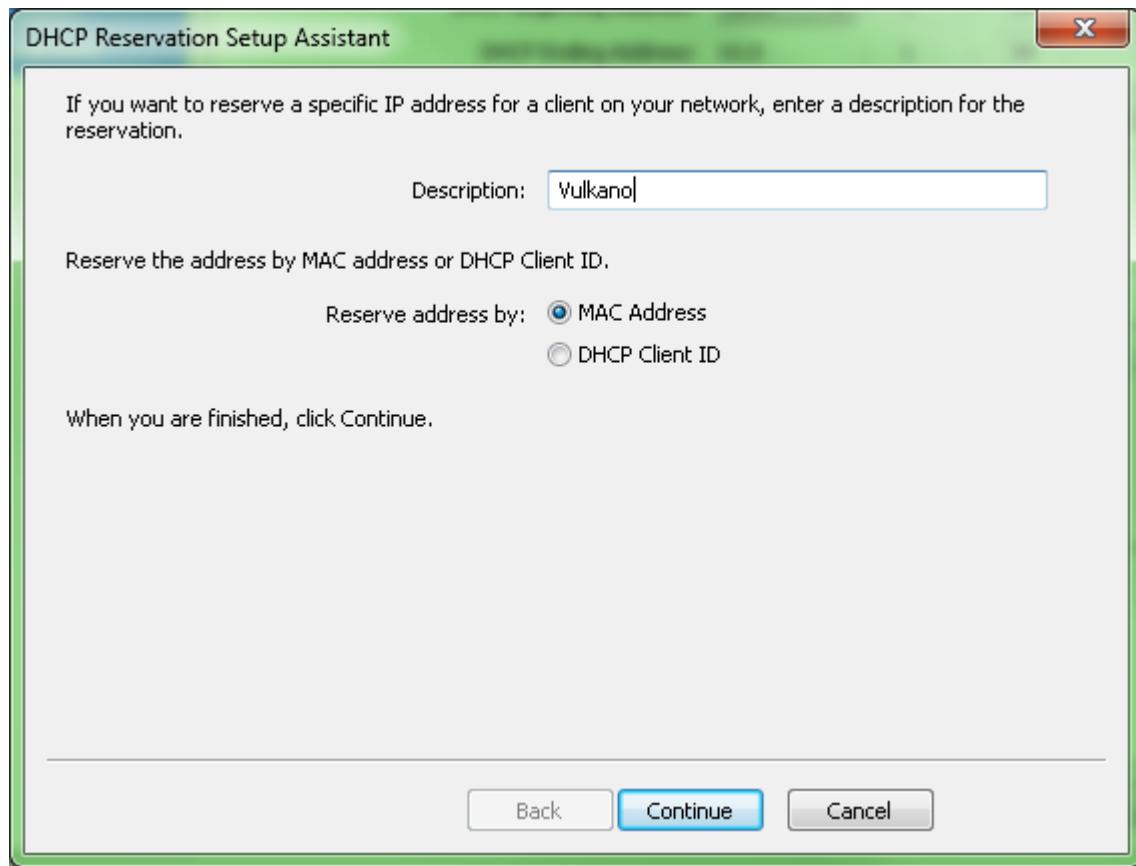
Making a DHCP Reservation

The AirPort Extreme router allows you to make a "DHCP Reservation" which makes sure that your Vulkano always gets assigned the same IP address, without requiring you to actually set Vulkano to use a static IP.

In the AirPort utility, choose the Internet-DHCP tab.

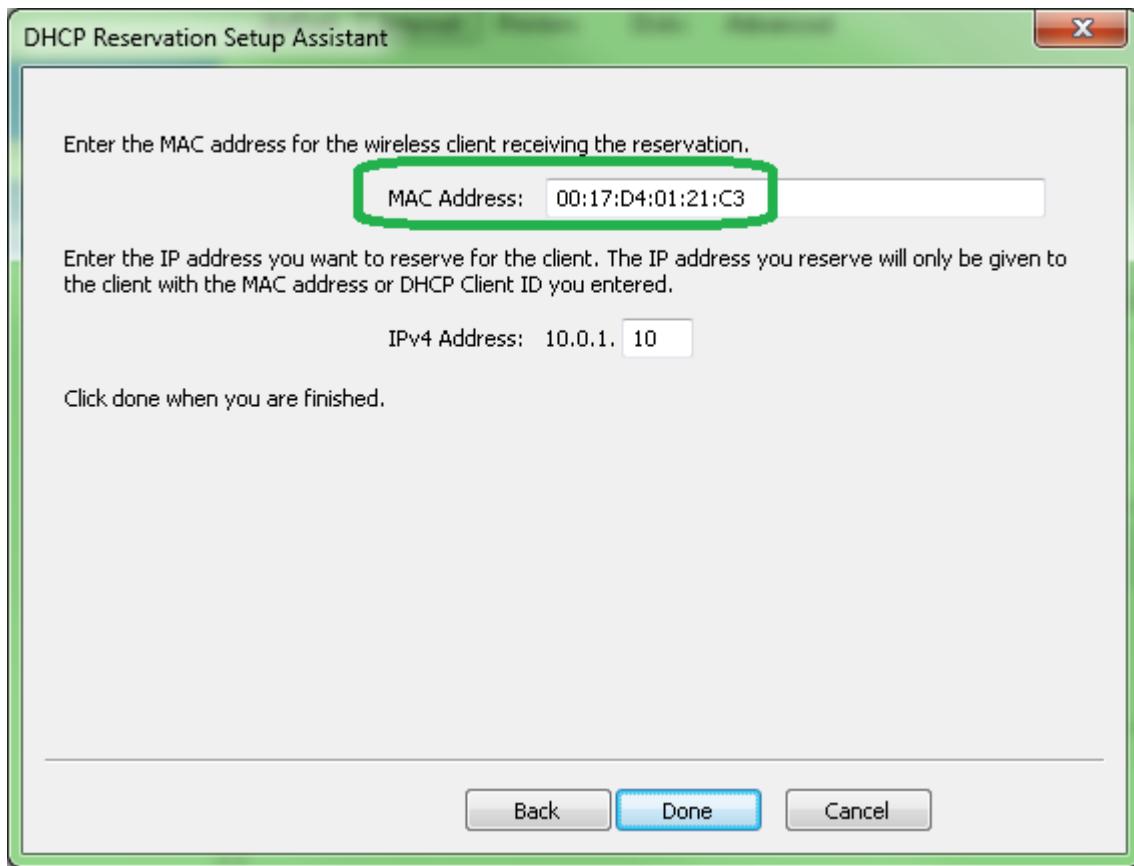


Click on the "+" sign to add a DHCP reservation.



Enter "**Vulkano**" for the description and "**Reserve by MAC Address**", then click on "**Continue**".

Enter the Vulkano's Mac address, which you can determine by following [these instructions](#), then click on "**Done**".



Finally, click on "**Update**" to enter the settings to your Apple AirPort Extreme.

Choosing a static IP address for Vulkano

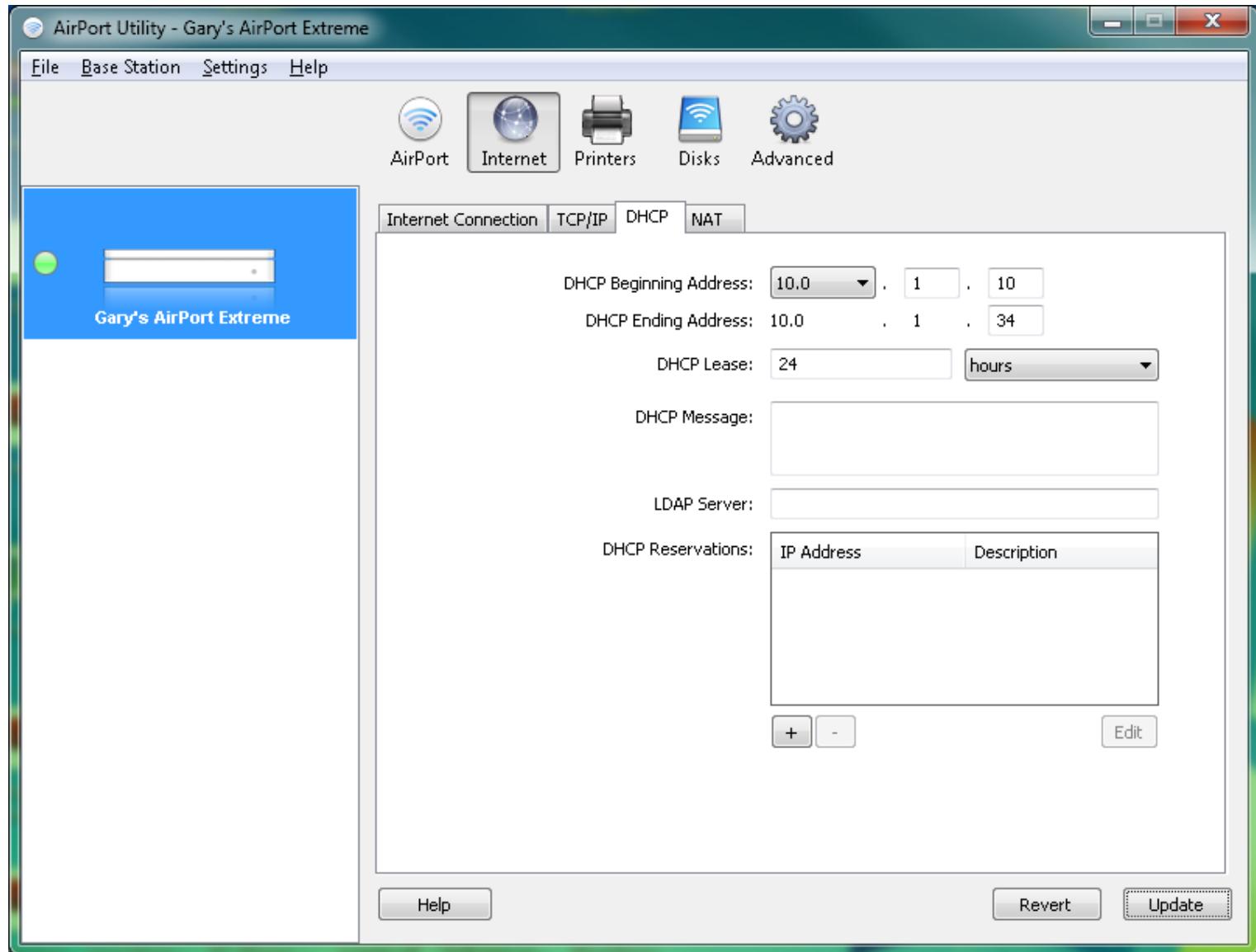
If you choose not to use DHCP reservation, you will need to explicitly set Vulkano to use a static IP address that will not conflict with the DHCP range that your router will use to give out addresses automatically to other devices on the network.

First, determine your DHCP range on the next page, then use this information to [set the static IP address on Vulkano](#).

Determining your DHCP range

The "DHCP range" refers to the list of IP addresses that are handed out automatically to devices connecting to your home network by your router. Each network device requires an IP address to communicate.

To find the Apple Airport Extreme's DHCP range, run the AirPort Utility and access the **Internet-DHCP** tab as shown.



As shown, the DHCP range is from 10.0.1.10 (the DHCP Beginning Address) to 10.0.1.34 (the DHCP Ending Address). The first three numbers separated by dots, in this case 10.0.1, are collectively known as the **subnet**.

You want to choose a static IP for Vulkano that is outside of this range.

The entire subnet consists of the range of IP addresses between 10.0.1.1 and 10.0.1.253. The router usually reserves the lowest address for itself.

So the IP address ranges in this example are:

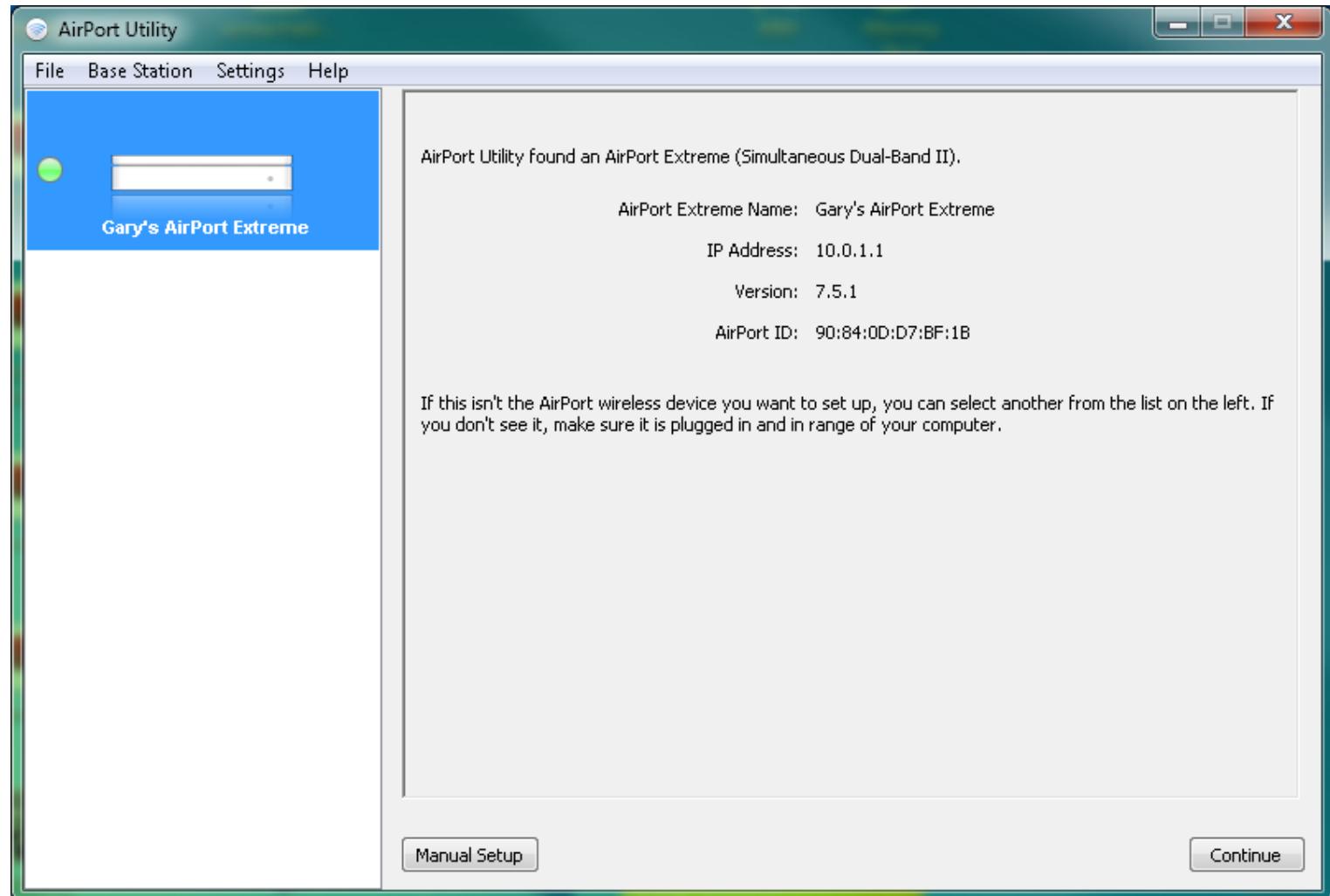
- **10.0.1.1 - used by the Apple router**
- **10.0.1.2 to 10.0.1.9 - available**
- **10.0.1.10 to 10.0.1.34 - used by DHCP**
- **10.0.1.35 to 10.0.1.253 - available**

Now proceed to configure Vulkano for an available static IP address using the instructions on [this page](#).

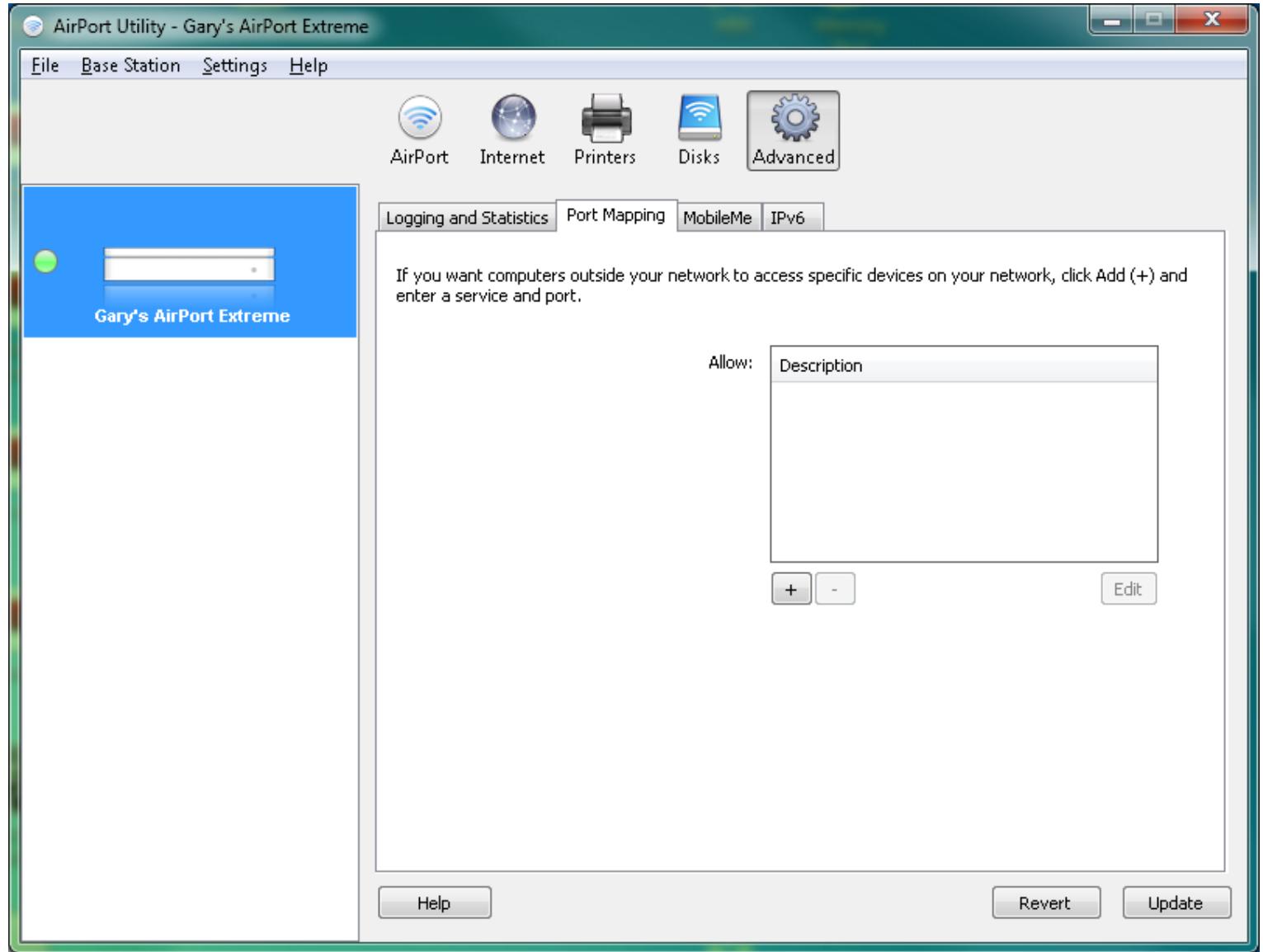
Configuring Remote Access

To configure remote access on the Apple Airport Extreme, you'll use the "Port Mapping" feature in the Airport Utility software.

Open the Airport utility and select "Manual Setup" from the main screen.



Click on the "Advanced" icon, then the "Port Mapping" tab.

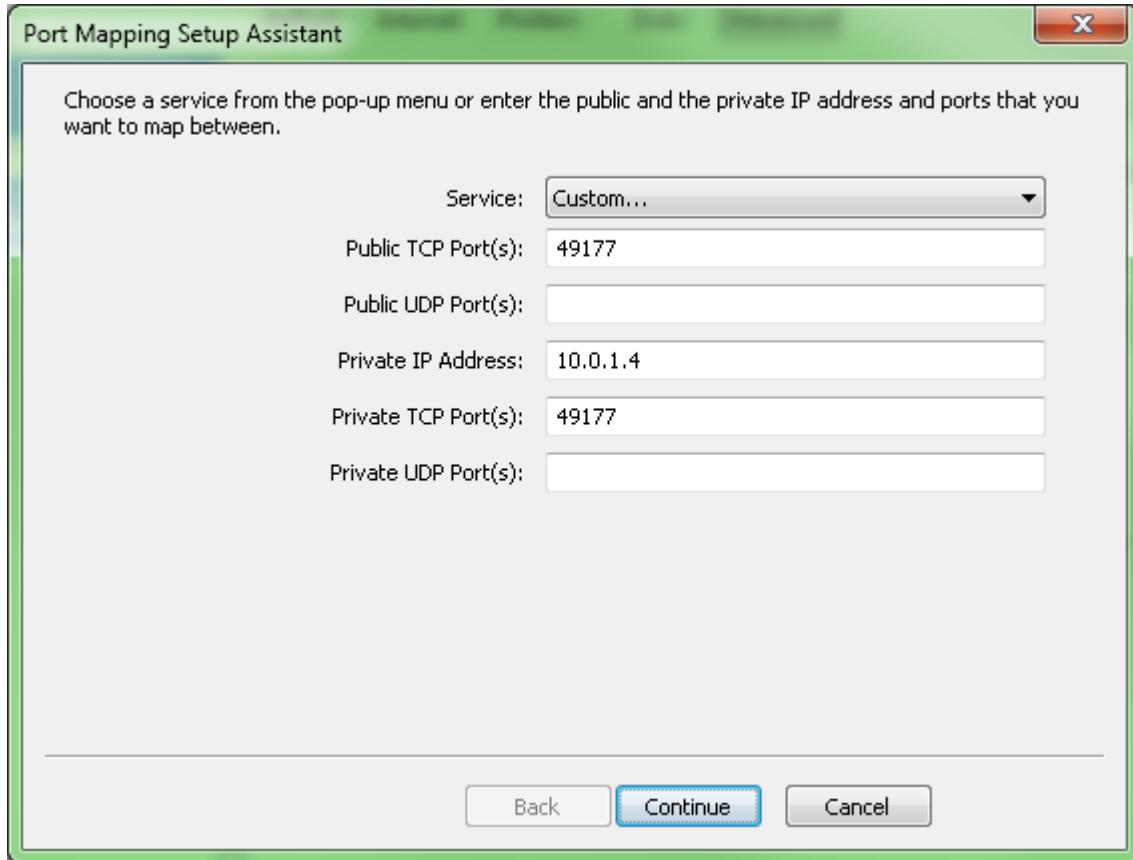


Now click the "+" sign to add a new Port Mapping rule.

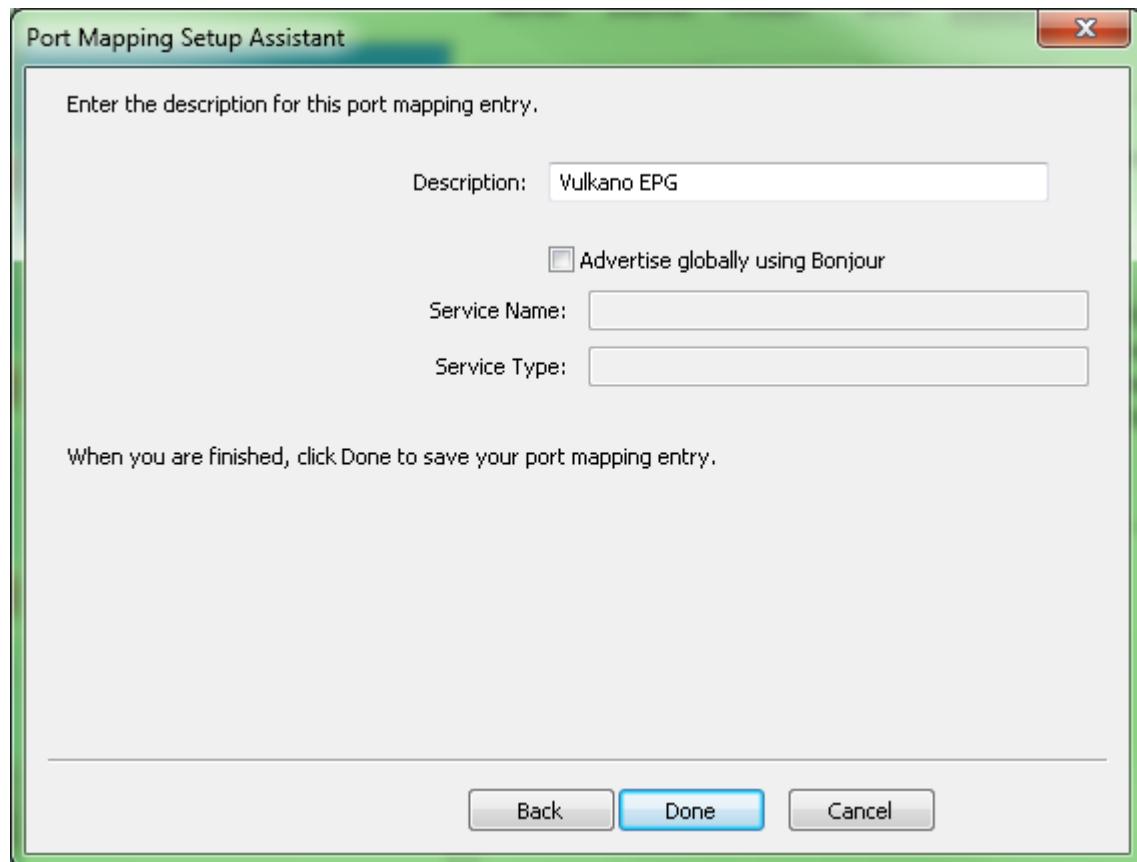
Select "**Custom**" from the "**Service**" drop-down list.

Enter **49177** for both the **Public** and **Private TCP Port(s)**.

In the "**Private IP address**" field, enter your Vulkano's static IP address. This will probably be different than what is shown here.



Press "**Continue**", then enter "**Vulkano EPG**" in the description field. Click "**Done**" to save this entry.

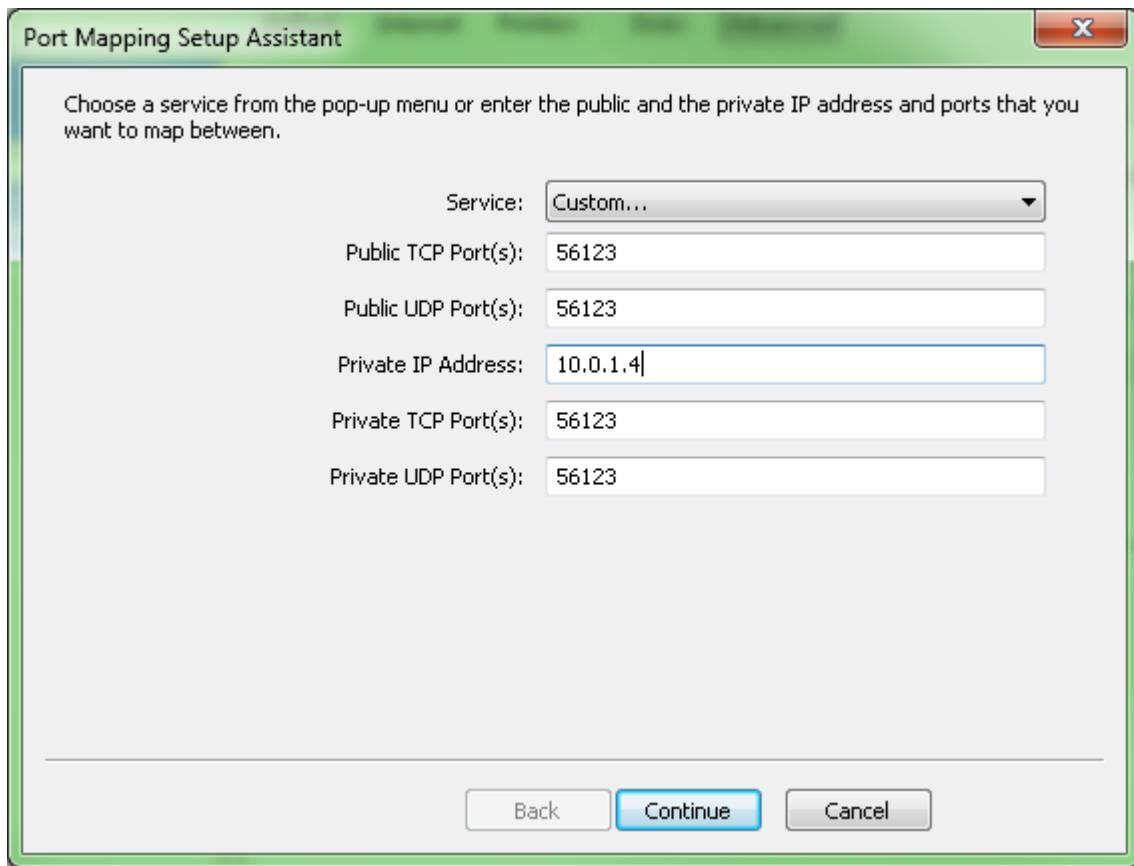


Now click the "+" sign to add another new Port Mapping rule.

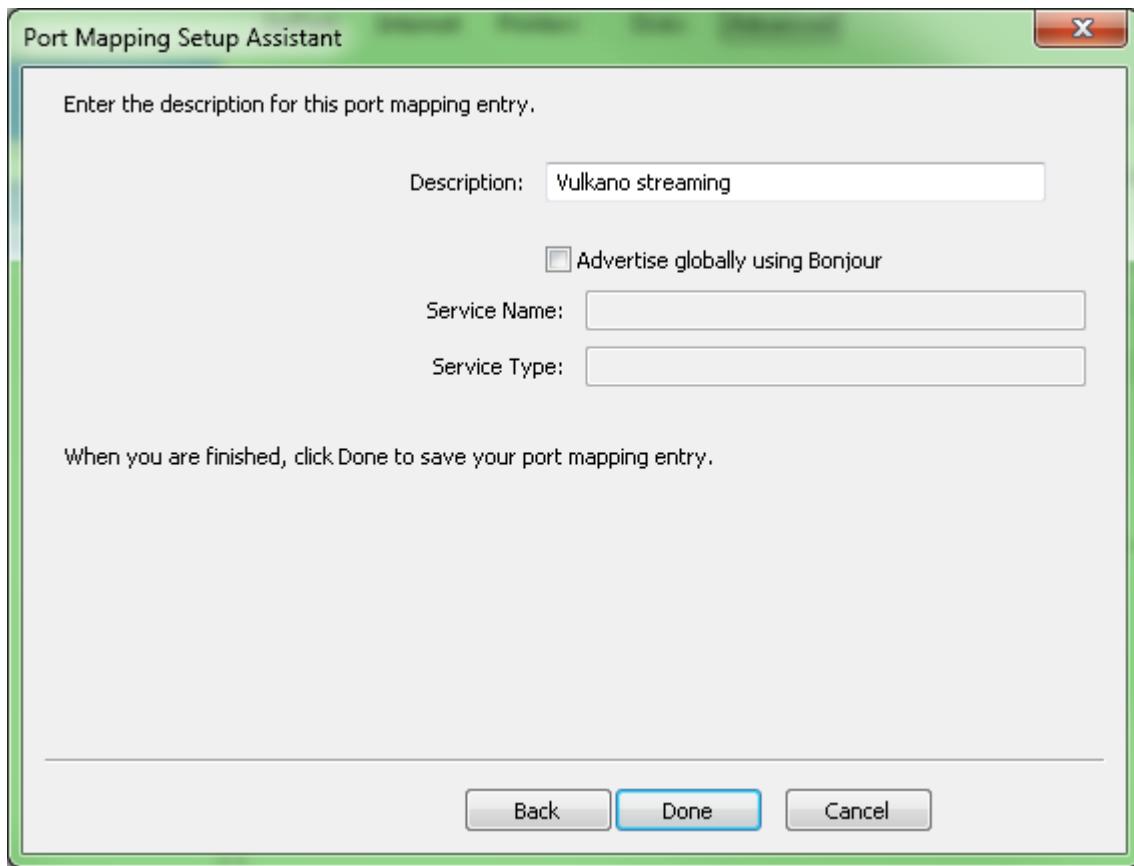
Select "**Custom**" from the "**Service**" drop-down list.

Enter **56123** for both the **Public** and **Private TCP Port(s)**, and **Public** and **Private UDP Port(s)**.

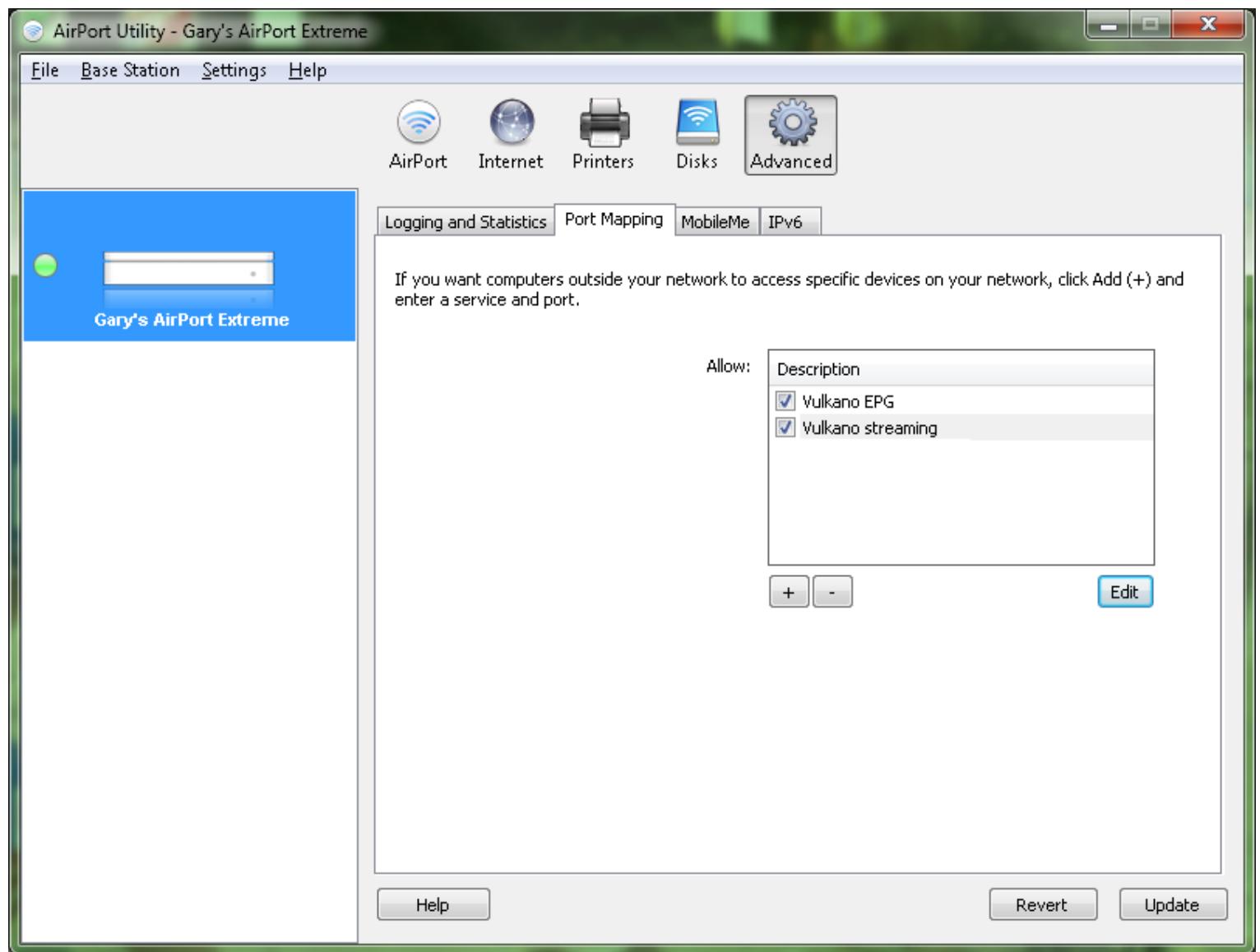
In the "**Private IP address**" field, enter your Vulkano's static IP address. This will probably be different than what is shown here.



Press "**Continue**", then enter "**Vulkano Streaming**" in the description field. Click "**Done**" to save this entry.



Confirm your new entries, then click on "**Update**". Your Remote Access configuration is now ready to test.



You can now close the AirPort Utility and proceed to test the port forwarding setup with [TV Setup](#) or [PC Setup Wizard](#).

AT&T uVerse (2Wire)

Choosing a static IP address for Vulkano

As the AT&T 2Wire router does not support DHCP reservation, you will need to explicitly set Vulkano to use a static IP address that will not conflict with the DHCP range that your router will use to give out addresses automatically to other devices on the network.

First, determine your DHCP range on the next page, then use this information to [set the static IP address on Vulkano](#).

Determining your DHCP range

The "DHCP range" refers to the list of IP addresses that are handed out automatically to devices connecting to your home network by your router. Each network device requires an IP address to communicate.

Open a browser window, type in the IP address of your router, then hit **Enter**.

Click on the "Advanced Settings" link to see this page. The DHCP range is shown outlined by an orange box.

The screenshot shows the 2Wire router's web-based configuration interface. At the top, there is a navigation bar with icons for System, Broadband Link, Home Network (which is highlighted), Voice Network, and Firewall. Below the navigation bar, there are tabs for Summary, Wireless Settings, and Advanced Settings, with the Advanced Settings tab currently selected. On the right side of the header, there are links for HOME, Help, and Site Map.

Edit Advanced Home Network Settings

WARNING

⚠️ Modifying the settings on this page can impact the ability of computers on the local network to access your broadband connection. Modifications may also affect broadband-enabled applications and services running on the local network.

Settings

Private Network

If you change the IP address range, you must renew the DHCP lease on all devices on the network.

192.168.1.0 / 255.255.255.0 (default)
 172.16.0.0 / 255.255.0.0
 10.0.0.0 / 255.255.0.0
 Configure manually

Router Address:

Subnet Mask:

Enable DHCP

First DHCP Address:

Last DHCP Address:

Set DHCP Lease Time: hours

Current Settings

Private Network

Router Address:	192.168.11.1
Subnet Mask:	255.255.255.0
DHCP Range:	192.168.11.173 – 192.168.11.200
Allocated:	28
Available:	0

Device List

Gary-PC-V64U	192.168.11.192
--------------	----------------

[EDIT ADDRESS ALLOCATION](#)

As shown, the DHCP range is from 192.168.11.173 to 192.168.11.200.

The first three numbers of an IP address, separated by dots, in this case 192.168.11, are collectively known as the **subnet**.

You want to choose a static IP for Vulkano that is outside of this range.

The entire subnet consists of the range of IP addresses between **192.168.11.1** and **192.168.11.253**. The router usually reserves the lowest address for itself.

So the IP address ranges in this example are:

- **192.168.11.1 - used by the 2Wire router**
- **192.168.11.2 to 192.168.11.172 - available**
- **192.168.11.173 to 192.168.11.200 - used by DHCP**
- **192.168.11.201 to 192.168.11.253 - available**

Now proceed to configure Vulkano for an available static IP address using the instructions on [this page](#).

Configuring Remote Access

Log into the AT&T 2Wire router's setup page using the [router's IP address](#) in your browser.

By default, there is no login required.

Click on "**Settings**", then "**Firewall**".

Under "**1) Select a computer**" select "vulkano" or "volcano". The display will change to "**You have chosen vulkano**".

Home Services Settings Site Map

System Info Broadband LAN Firewall Logs Diagnostics

Status Applications, Pinholes and DMZ Advanced Configuration

Allow device application traffic to pass through firewall

By default, the firewall blocks all unwanted access from the Internet. You can allow access from the Internet to applications running on computers inside your secure home network by enabling firewall pinholes. Opening firewall pinholes is also known as opening firewall ports or firewall port forwarding. To do this, associate the desired application with the computer below. If you cannot find a listing for your application, you can create a user-defined application with the protocol and port information.

Allow device application traffic to pass through firewall

By default, the firewall blocks all unwanted access from the Internet. You can allow access from the Internet to applications running on computers inside your secure home network by enabling firewall pinholes. Opening firewall pinholes is also known as opening firewall ports or firewall port forwarding. To do this, associate the desired application with the computer below. If you cannot find a listing for your application, you can create a user-defined application with the protocol and port information.

To allow Internet traffic or users through the Firewall to your LAN devices, applications and servers

1) Select a computer

Choose the computer that will host applications through the firewall

Choose 192.168.1.64
 Choose 192.168.1.65
You have chosen vulkan0
 Choose 192.168.1.67
 Choose users-iPod
 Choose TGC-SanF-01-Why
 Choose Wii

 Enter IP address

2) Edit firewall settings for this computer

Maximum protection – Disallow unsolicited inbound traffic
 Allow individual application(s) - Choose the application(s) that will be enabled to pass through the firewall to this computer. Click ADD to add it to the Hosted Applications list.

Filter Applications by	Application List	Hosted Applications
<ul style="list-style-type: none"> All applications Games Audio/video Messaging and Internet Phone Servers Other User-defined 	<ul style="list-style-type: none"> Age of Empires Age of Kings Age of Wonders Aliens vs Predator Anarchy Online Asheron's Call Baldur's Gate BattleCom Battlefield Communicator Black and White 	<ul style="list-style-type: none"> Add Remove
Add a new user-defined application		
Edit or delete user-defined application		

In the section "**2) Edit firewall settings for this computer**", choose "**Allow individual application(s)**".

You will need to add three user-defined applications:

1. Vulkano EPG: TCP on port 49177
2. Vulkano TCP: TCP on port 56123
3. Vulkano UDP: UDP on port 56123

Select "**Allow individual applications**", then click on the link "**Add a new user-defined application**".

Enter the settings shown below, then click on "**Add to List**".

[Home](#) [Services](#) [Settings](#) [Site Map](#)[System Info](#) [Broadband](#) [LAN](#) **Firewall** [Logs](#) [Diagnostics](#)[Status](#) [Applications, Pinholes and DMZ](#) [Advanced Configuration](#)

Firewall Application Profile Definition

If the desired application requires multiple ports of both TCP and UDP ports, you will need to add multiple definitions. Current definitions for this profile are shown in the Definition List below.

Application Profile Name

Vulkano EPG

Create Application Definition

Protocol

 TCP UDP

Port (or Range)

From 49177 To 49177

Protocol Timeout

TCP default 8400 seconds, UDP default 600 seconds

Map to Host Port

Default/blank = same port as above

Application Type

-

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu above, it is recommended that you select it.

Add to List

Definition List

The following screen will appear, confirming your entry.

Configuration Successful

Firewall Application Profile Definition

If the desired application requires multiple ports of both TCP and UDP ports, you will need to add multiple definitions. Current definitions for this profile are shown in the Definition List below.

Application Profile Name Vulkano EPG

Create Application Definition

Protocol

TCP UDP

Port (or Range)

From To

Protocol Timeout

TCP default 8400 seconds, UDP default 600 seconds

Map to Host Port

Default/blank = same port as above

Application Type

-

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu above, it is recommended that you select it.

Add to List

Definition List

Protocol Port (or Range) Host Port Timeout (sec)

TCP	49177	49177	86400
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[Remove](#)

[Back](#)

Similarly, add the definitions for **Vulkano TCP** and **Vulkano UDP**:

Firewall Application Profile Definition

If the desired application requires multiple ports of both TCP and UDP ports, you will need to add multiple definitions. Current definitions for this profile are shown in the Definition List below.

Application Profile Name

Vulkano TCP

Create Application Definition

Protocol

TCP UDP

Port (or Range)

From 56123 To 56123

Protocol Timeout

TCP default 8400 seconds, UDP default 600 seconds

Map to Host Port

Default/blank = same port as above

Application Type

-

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu above, it is recommended that you select it.

Add to List

Definition List

Firewall Application Profile Definition

If the desired application requires multiple ports of both TCP and UDP ports, you will need to add multiple definitions. Current definitions for this profile are shown in the Definition List below.

Application Profile Name	<input type="text" value="Vulkano UDP"/>
Create Application Definition	
Protocol	TCP <input type="radio"/> UDP <input checked="" type="radio"/>
Port (or Range)	From <input type="text" value="56123"/> To <input type="text" value="56123"/>
Protocol Timeout	<input type="text"/> TCP default 8400 seconds, UDP default 600 seconds
Map to Host Port	<input type="text"/> Default/blank = same port as above
Application Type	<input type="text" value="-"/>
Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu above, it is recommended that you select it.	
<input type="button" value="Add to List"/>	

Once you have added all 3 of the application settings for Vulkano, you now need to apply them to the Vulkano device. Again, make sure that "vulkano" or "volcano" is the selected computer, select "**Allow individual application(s)**", click and shift-click to select all three Vulkano application rules, then finally click "**Add**" to add them to the list.

Maximum protection – Disallow unsolicited inbound traffic

Allow individual application(s) – Choose the application(s) that will be enabled to pass through the firewall to this computer. Click ADD to add it to the Hosted Applications list.

Filter Applications by

- All applications
- [Games](#)
- [Audio/video](#)
- [Messaging and Internet Phone](#)
- [Servers](#)
- [Other](#)
- [User-defined](#)

Application List

- Vulkano EPG
- Vulkano TCP
- Vulkano UDP
- Windows Remote Desktop
- Age of Empires
- Age of Kings
- Age of Wonders
- Aliens vs Predator
- Anarchy Online
- Asheron's Call

Hosted Applications

[Add](#)

[Remove](#)

[Add a new user-defined application](#)

[Edit or delete user-defined application](#)

Allow all applications (DMZplus mode) – Set the selected computer in DMZplus mode. All inbound traffic, except traffic which has been specifically assigned to another computer using the "Allow individual applications" feature, will automatically be directed to this computer. The DMZplus-enabled computer is less secure because all unassigned firewall ports are opened for that computer.

Note: Once DMZplus mode is selected and you click save, the system will issue a new IP address to the selected computer. The computer must be set to DHCP mode to receive the new IP address from the system, and you must reboot the computer. If you are changing DMZplus mode from one computer to another computer, you must reboot both computers.

Save

After adding the new Vulkano applications, you'll see this:

Hosted Applications:

Vulkano EPG
Vulkano TCP
Vulkano UDP

Now click "**Save**" to apply the settings to your router.

You can now close the browser window showing your router setup and proceed to test the port forwarding setup with [TV Setup](#) or [PC Setup Wizard](#).

Additional resources

Monsoon Multimedia Support Information

Live Support Hours:

9:00 AM to 9:00 PM PST Monday - Saturday

Call 1(866)-937-4282

Support by e-mail

E-mail support@monsoonmultimedia.com and you will hear a reply within 24 hrs Monday to Friday.

For Mobile Queries kindly write to mobile@monsoonmultimedia.com.

Online Vulkano Community Forum: <http://placeshiftingenthusiasts.com/mm/forum/>

Web links

Here are links to several technical articles which you may find useful if you wish to learn more about the technology behind port forwarding. This information is optional and only offered in case you are interested.

General information about Port Forwarding: http://en.wikipedia.org/wiki/Port_forwarding

Vulkano port forwarding instructions for many routers: http://portforward.com/english/applications/port_forwarding/Monsoon_Vulkano/Monsoon_Vulkanoindex.htm

Note: The software that this web site wants to sell you uses UPnP to attempt port forwarding setup, just like the Vulkano Setup itself. This is a third-party web site with no affiliation with Monsoon Multimedia.

DHCP: http://en.wikipedia.org/wiki/Dynamic_Host_Configuration_Protocol

Finding your DNS server address: <http://www.cyberciti.biz/faq/how-to-find-out-what-my-dns-servers-address-is/>